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Farm and Ranch REVIEW

NOVEMBER, 1954

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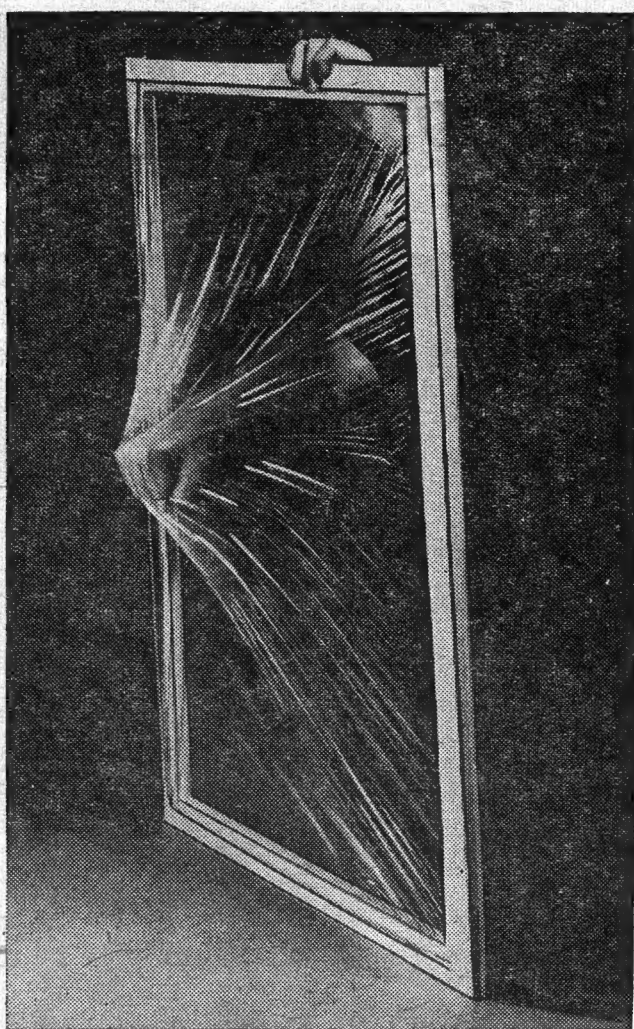
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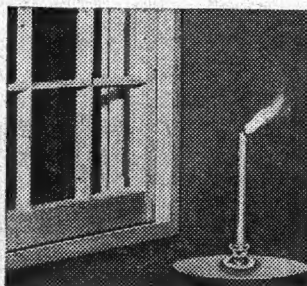


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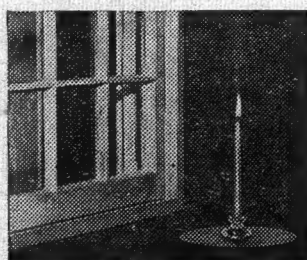
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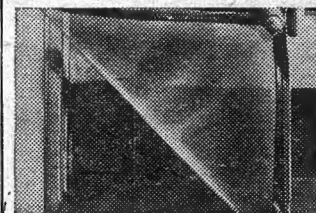
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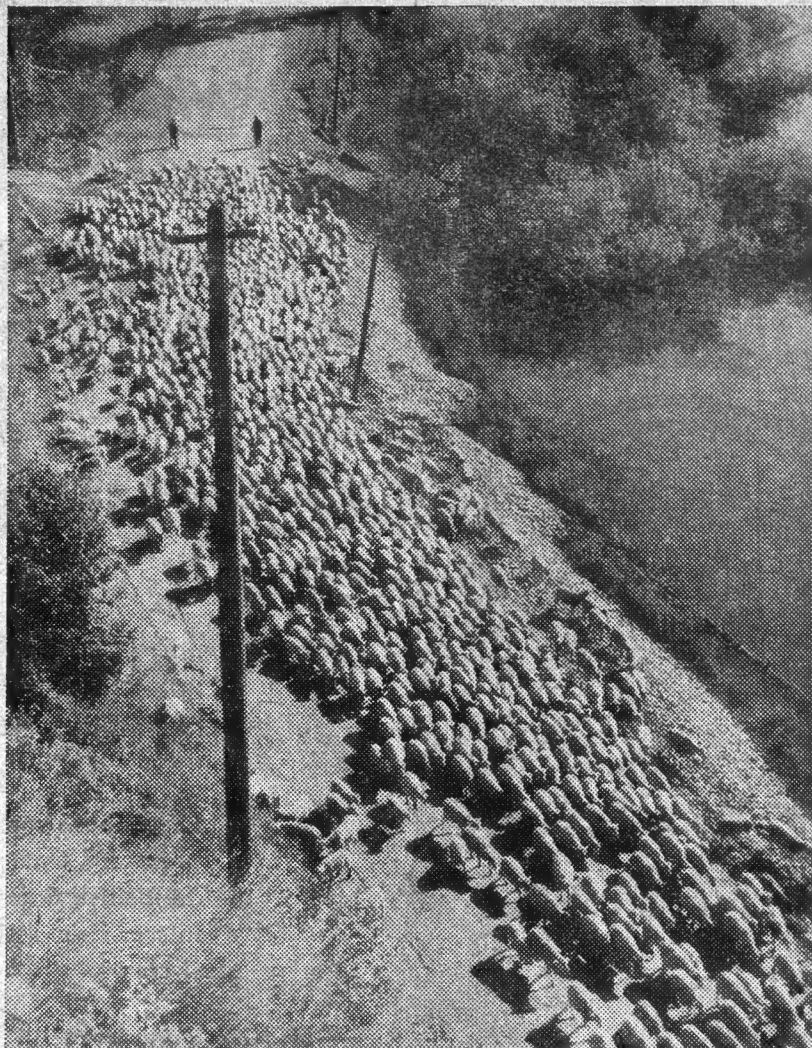


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No. 12

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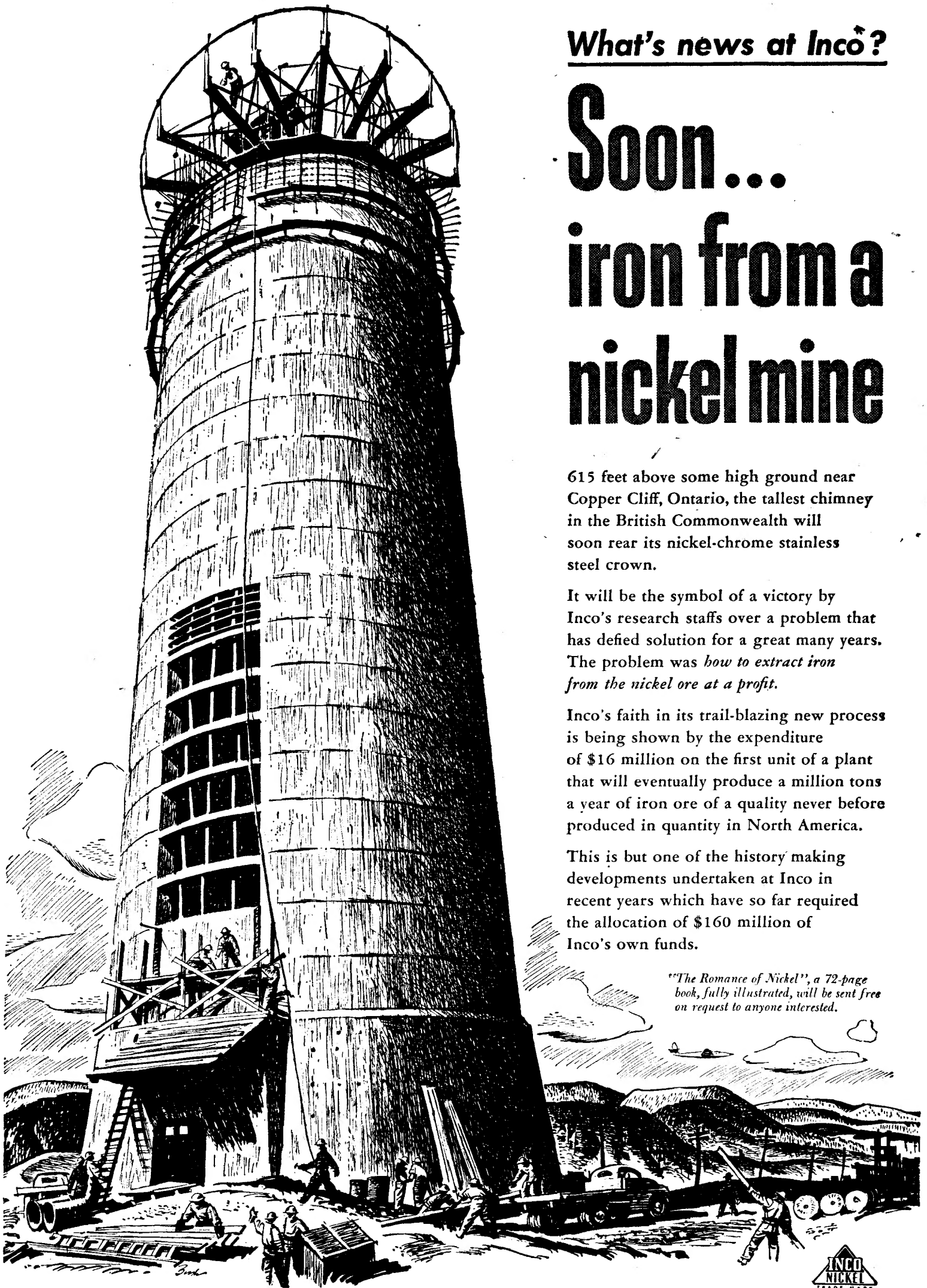
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The Farm and Ranch Editorial Page...

Let's get some answers to the practical questions

WE'VE never been too sure that producer or government marketing boards offer a complete solution to all the problems of the non-grain farmers. It's always seemed to us that by concentrating on solving our wheat marketing problem we would best serve our main interests. Obviously we sink or swim on the price of wheat, whereas the prices obtained for vegetables, poultry and eggs, pork and even beef cattle are of secondary importance.

As the arguments over the producer boards proceed this fall and winter, we hope to see the following points clarified. If they cause us to suspend our judgment, they must also be causing many farmers and ranchers of the West to have their doubts.

1. What exactly do the advocates of compulsory producer boards for beef cattle hope to achieve? What is the problem they hope the board will solve? Do they expect to get a higher price for all their beef, or have they some faith that a board might fill in some of the price dips that are the main grievance of the beef people?

2. Is it hoped to raise the price of beef at the retail level, the wholesale level or at the stockyards level? Is it thought that a producer board could process cattle at a smaller margin than those now in the business? The big spread in beef prices is between the wholesaler and the consumer. That is, the retailer is the fellow that takes the biggest bite out of the consumer's dollar. How do we reduce that bite?

We have heard advocates of the producer boards cite the Milk Boards as an example of how these boards would work in the interests of the producers. They have picked one of the best examples possible. The Milk Boards have been largely responsible for bringing a degree of stability at fairly profitable levels to the milk business and particularly to the producers.

It is important, however, to make sure that we are comparing things that are comparable. The milk business was always centralized. That is: the product of many farmers passed into relatively few hands. The creameries not only bought and processed the milk; they sold it directly to the consumers. By tradition they had their own delivery systems. Indeed, the crisis in the milk business developed when the chain stores tried to use milk as a loss leader to entice customers into their stores.

The beef tradition is just the reverse of the milk tradition. If the meat packers followed the milk processors, they would do the bulk of the retail business in meats. Instead they do none. All the meat consumed in Canadian cities is marketed retail by other organizations, by the food chains, by the department stores, by the hundred of small butcher shops.

A producer board which would try to set the prices of beef all down the line, as milk prices are set, would be given an impossible task. The profit margin that would enable one packer to get rich would bankrupt another. The retail margin that a chain store would find highly profitable would drive all the small merchants out of business. Perhaps all that is not part of the argument. But it seems to us that considerations of this kind are the very heart of the beef marketing problem. Certainly they point up the fact that merchandising beef is a highly complicated business.

3. On previous occasions we've mentioned some of the problems that will confront boards that are set up to deal with what can be called incidental crops. Should a board be established to handle all the seeds raised in this country? How could it control the surpluses of seeds that develop, except by doing what the trade does, cutting the price? When seed prices are high, everybody wants to get into the act. They force the price down, only the regular growers are left. They struggle along until the surplus is worked off, the price rises and attracts the newcomers all over again. How, then, is it proposed to handle problems like that?

4. All across the prairies farmers' wives have been battling the law of supply and demand in eggs and poultry since the dawn of settlement. When they have no eggs to sell, prices are always high. But as soon as their pullets start laying the country is

flooded with eggs and the prices drop. High egg prices encourage people living on the fringes of the cities to buy an extra 50 or 100 baby chicks. When these chicks mature and start to lay they help drive the price of eggs down. Well how does a poultry marketing board controlled by the poultry producers solve that one?

These are all highly practical problems. As we say, they are problems we hope to see discussed this fall and winter. Unfortunately, too much of the discussion we have heard has been on a far different level. To wit:

"The farm organizations and their leaders have been bombarding governments with demands for marketing boards. Therefore, we must pass this resolution favoring a marketing board in order to back up our leaders!"

All of our readers have heard this argument advanced. It seems to us that this is the worst argument that can be advanced for the boards. There is only one reason why the farmers should get these marketing boards. That is because they have argued the issue out, have completely talked it out and are overwhelmingly in favor of the boards. That stage has certainly not yet been reached.

Having said all that, we must add this: The opponents of the producer board idea have not emerged from the discussions so far with any marks for exemplary conduct. It isn't enough to say the boards are no good and soak them with a lot of smear words. Those who don't like the boards and the compulsion that is inevitable in their operation should be working to devise ways and means of removing the causes of all this agitation for boards. Let's get back to beef cattle again. Surely it ought to be possible to invent some method of overcoming the price dips that develop at our stockyards.

The producer who gets caught in those dips, and has to sell his animals for less than the market has been bringing, is going to have a talking point against the present system for the rest of his life.

Freight rates and prairie farmers

FOR 50 years one of the curses of the economical life of Western Canada has been high freight rates. Prairie farmers pay the freight on the food they ship to market and they pay the freight on everything that comes into this part of the country. And because the West has not had the benefit of water competition the rates out here have been much higher than those down east, where there was water transportation.

Every now and then, however, a competitive factor has been introduced into our section of the country. For example, the truckers moved in a few years ago and grabbed most of the automobile freight business from the railways. The result was that the prices we paid for our cars and trucks were reduced. To get the business back the railways made deals with the auto makers. In return for contracting to ship 75 per cent of their cars by rail, the motor companies got a special rate from the railways.

To meet similar competition from truckers, particularly between the East and the coast, other special "agreed charges" were offered. This "agreed charge" business placed a few Alberta concerns at a disadvantage. Some time ago the Transport Board ruled that freight rates to intermediate points in Alberta could not be more than a third higher than those charged to the coast. The railways contended that the one-third rule should not apply to "agreed charge" articles.

This is a complicated subject. But it seems to us that the Alberta business people got onto the wrong track when they started denouncing the "agreed charge" contracts of the railways. These contracts enable the railways to meet competition for the high tariff freight. They can fight back at the truckers by lowering their rates. At a time when all our costs are rising, it is in the interest of the farmers of the West to get lower

(Continued on page 6)

Farm and Ranch Editorials

Democracy can't be enforced

NORMALLY, we don't have too much to say in these columns on high level international affairs. It's an overcrowded field for commentators, anyway. Besides there are usually too many important things affecting Prairie Farmers to have much space left when we get through with those topics. But there is one point about the clash between Communism and Democracy that has us completely baffled. It is this:

Suppose we get into a shooting war with the Russians and the Chinese and after the world has been half destroyed by hydrogen bombs and worse, we force our enemies to surrender. How do we win the peace? How do we proceed with the problem of converting 200,000,000 Russians to democracy? Just because we think that democracy provides the perfect way of life, it doesn't follow that everybody else would think likewise if they had the chance. The Germans, the Italians and the Spaniards in fact all had the chance and decided they would like totalitarianism a lot better. Germany is now getting a second chance. So is Italy. But will they not in the end revert to the sort of government they find most comfortable? There is a type of mind which dislikes making decisions, which prefers not to think for itself, which is completely content in being told what to do and when to do it. Such a type of mind doesn't make for a healthy democracy.

Let's remember that the Russia of today is composed exclusively of people who know nothing else but ordering and being ordered about. What if many of them have grown to dislike it? Many of them were disgruntled in 1941 and greeted Hitler's armies as liberators, until they learned differently. Perhaps they would behave the same if our armies march in on some tomorrow. But what happens when the shooting stops? How do you put a democratic system into operation in Russia, when the instincts of all the people are totalitarian?

Do we send over a million skilled instructors who will teach democracy to the Russians? Where in the world would we find that many instructors, or half the many, or a tenth that many? A Democracy can be overthrown by Communism very simply, by seizing control of the army and the police. That happened all over Europe. But neither

(Continued from page 5)

freight rates whenever and wherever we can.

Instead of criticising the "agreed charge" system we should be supporting it and concentrating on getting it applied to the freight covered by the "through-rate-plus-one-third" rule. The Farm and Ranch has argued many times that the farmers of the West have a vital stake in preserving our railways in a healthy condition. For 20 years, the truckers have been skimming the cream off the top of the freight business. For too long the railways sat back and did nothing to get their most profitable business back. Now they've started to fight back and we say all power to them.

the army nor the police are capable of imposing Democracy on a people.

Democracy is something you have to live with a long time to understand. It's a second and third generation thing, not something anybody can learn quickly. It's something that different people work out in different ways. American Democracy is very different from our own in form, though the substance is similar. French Democracy and British Democracy have little in common; India and Pakistan are different again.

Russian Democracy in the nature of things would be different again. It won't be something imposed from without but something worked out from within. And how long would it take to work out? A generation, or two, or five? So it seems to us that the arguments in favor of trying to work out some method of living together are unanswerable. We don't have to like each other, but we do have to live together. Our own course should be to take every step necessary to protect ourselves while at the same time stop toying with the idea of winning anything with a war of hydrogen bombs.

★

Let's celebrate this birthday

IN the year coming up, the people of Alberta and Saskatchewan are going to have a real excuse for a celebration. It will mark the 50th anniversary of the entry of these provinces into Confederation.

Saskatchewan has had the matter of putting on a real bang-up birthday party well in hand for some time. In Alberta things are lagging badly. Why, we wonder, can't our two governments join forces and co-ordinate their plans and by joint effort have twice as much success.

There is the idea of inviting a member of the Royal Family to pay us a visit and take part in festivities. We should have our plans worked out so that things like that are taken care of. A joint invitation would bear just twice the weight of a single invitation.

The history of this region is of course the history of farm settlement and agricultural development. We'd like to see our summer exhibitions bear that in mind next year, and for one year at least get their attention directed back to the farm and the farmers. We have all come a long way in 50 years. There is a lot to be learned from the experiences we have been through. So let's handle this celebration the way such things have always been handled on the prairies, by the good neighborly approach in which everybody pitches in and works together to put the thing over.

★

Talking through his hat

ALBERTA readers of the Farm and Ranch, who have been futilely trying to prevent the expansion of municipal boundaries to the size of English counties, will be interest-

ed in the following quotation from the Rocky Mountain House Mountaineer. Hon. A. J. Hooke spoke at a meeting at Rocky and this is what he said:

"He assured the meeting that we would not be pushed into any co-terminus set-up without our consent. Referring to the unpopular proposal of the commission that this area be included in Lacombe, he said he had received a storm of protest by phone, wire and letter and all were bitterly opposed to the idea. He said that nothing would be done until the people of this constituency agree.

"He personally favors co-terminus boundaries but only where those affected are agreeable and a scheme will be worked out that will satisfy us all."

Either the Hon. Mr. Hooke is talking through his hat, or his constituency is going to be treated a lot differently from the rest of southern Alberta. Elsewhere the people have not been consulted, the co-terminus boundaries idea has been adopted and effective municipal government has been destroyed. Nobody, seemingly, has paid any attention to public protests. Neither the Hon. Mr. Halmrast or Hon. Mr. Casey prevented the co-terminus boundaries from being applied to their constituencies.

Our own guess is that the electors of Rocky Mountain House will wind up in the same boat with the rest of southern Alberta, despite Mr. Hooke's promises to the contrary.

★

"Freshly churned" means butter

WE'VE been getting increasingly provoked lately by the choice of words of the margarine advertisers. It isn't enough to color the stuff to look like butter and package it to look like butter. Now their using terms to describe margarine that belong exclusively to butter.

Take the phrase "freshly churned" for example. Ask 95 per cent of the people what they think of upon hearing that phrase and they'll answer butter. The other five per cent will probably think of curds and whey.

So the margarine hucksters are now using the phrase "freshly churned" to describe margarine in the hope that they can entice some butter eaters into using the stuff. And, this, we submit is just plainly dishonest, a downright fraud on the people of this country.

They don't churn cottonseed oil and peanut oil and soy bean oil to make margarine. They put it through a hydrogenation process. Whether it is used soon after this processing or not doesn't seem to matter. "Stale" margarine, we gather, is the same as "fresh" margarine. Or maybe we should say "fresh" margarine is indistinguishable from "stale" margarine.

Why, we wonder, can't the hucksters stick to facts? Can it be that Canadians are becoming increasingly hard to sell margarine to and that the hucksters are getting a little desperate? We hope so.

The German shadow hovers over Europe

By BEN MALKIN

SINCE the end of the war the alphabet has been pressed into use numberless times in the search for abbreviations for new organizations. There is NATO (North Atlantic Treaty Organization); UNESCO (United Nations Educational, Scientific, and Cultural Organization); GATT (General Agreement on Tariffs and Trade); WHO (World Health Organization); and a host of others. And now there is BRUTO, which stands for Brussels Treaty Organization.

BRUTO is the outcome of a conference of nine countries, held in London a few weeks ago, which agreed to let Germany rearm to the level of 12 divisions, mainly armored and mechanized. The decision was historic not only for that reason, but because Britain offered to keep four divisions, which include almost all of its armored forces, on the continent of Europe during the next 44 years, or until almost the end of the century. Essentially, the British troops are to be kept in Europe not to protect Western Europe from Russian aggression, but to protect France from potential German aggression.

Britain is now directly involved in Europe's fortunes. How this will affect Britain's imperial interests remains to be seen, but undoubtedly Britain's former capacity to keep military forces in existence around the world will be sharply reduced.

The BRUTO powers comprise Britain, Belgium, France, the Netherlands, Luxembourg, Italy, Canada, West Germany, and the United States. BRUTO derives its name from the old Brussels Treaty Organization, in which the first five countries were members, and to which the other four have now been added. It replaces the European Defence Community, which was to have set up an integrated European army, in which German troops would not have had a separate existence, but would have come under overall EDC command.

France had objected that West Germany would be the dominant member of EDC, and could swing EDC into promoting purely German policies, such as reunification of the country, and recovery of territories lost to Poland and Czechoslovakia. France, therefore, would not rectify the EDC treaty. BRUTO appears to get around the objections, leaving France control of its own forces, while the presence of British troops in Europe would act as a counterpoise to German strength.

An Improvement

The new organization is an improvement over EDC, because it cannot be used by Ger-

many for German purposes as EDC might have been. But is it the final answer to the problem of averting Russian aggression? At least equally important, is it the solution to the problem of war or peace in Europe?

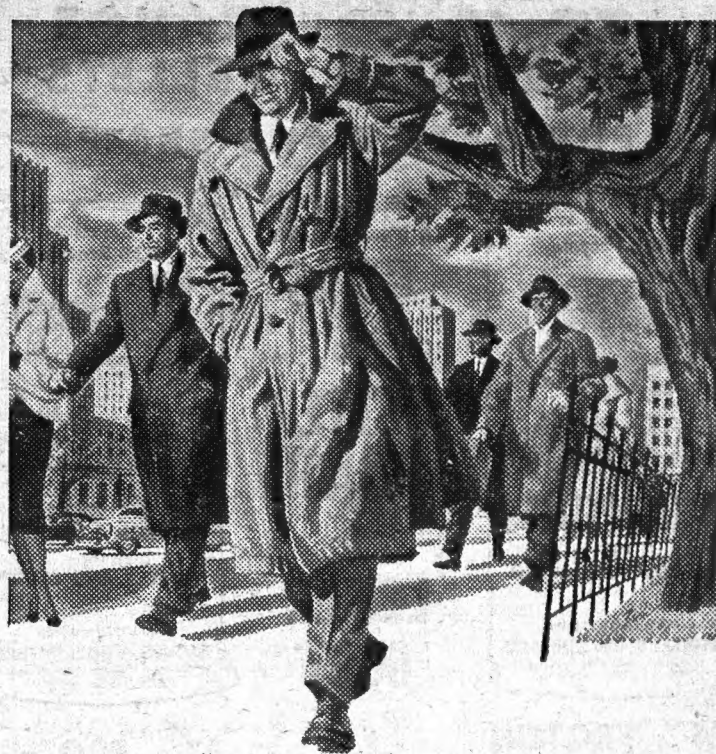
Since the setting up of the North Atlantic Organization, there has been little fear of actual Russian military aggression in Europe. NATO committed United States troops to European defence, and after all the only deterrent to aggression that makes much sense is the involvement of American power. The chief value in mustering West European troops, many of whom have been armed by the U.S. and Canada with unwanted World War II weapons, has lain in satisfying the American public that it is not bearing the whole defence burden. It has been a morale question. It follows that the rearming of Germany does not so much add to the West's deterrent strength (Russia could easily match Germany's 12 divisions) as it gives the West a comfortable feeling that everyone is doing their share.

Yet is this feeling, valuable as it is, worth the risk of rearming Germany? For if 12 German divisions do not matter in stopping the Russians nearly so much as the certain knowledge by Moscow that it will be at war with the U.S. if the Red Army attacks, German forces do matter as a potential mischief-maker. German issues exist around which nationalistic, warlike parties could rally support, and which must be settled if a re-armed Germany is not to become a danger to peace.

One such issue is the country's unification, and the Russians were clever enough to see this when they proposed to discuss the question right after BRUTO was formed. Another issue is the territories lost to Eastern Europe after the war. More than 20 per cent of Germany's population consists of refugees, and apart from West Germany's sentimental attachment to the lost territories, the refugees form a large enough group to constitute a powerful political force.

When Germany has its army and can do something about the situation, it is virtually certain that they will be heard from.

One of the best features of BRUTO is that it includes an attempt, if on a limited scale, to control West European armament. The solution to the question of war or peace would seem to lie in a more extended effort at arms control, to take in the West and Russia. The solution may be visionary, but it is surely in Russia's interest as much as in the West's to avoid war.



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Cattle feeding on share basis

By GRANT MacEWAN

ONE of the spectators at Moose Jaw Feeder Show was heard to say, "I've got hay and lots of barley and low-grade wheat and I'd be interested in fattening some steers this winter, but I can't finance the feeder cattle".

Quite a few farming people might say the same, which prompts a consideration of share or contract feeding by which one party, called the owner or speculator, furnishes the cattle and another, the feeder, assumes responsibility for feed and care, and both parties benefit from the increased value of the animals.

There have been numerous plans for sharing in livestock breeding and feeding. A few have worked justly and satisfactorily. Many have been faulty because they permitted an unjust division of the profits. It should be possible to strike such a deal that, with usual marketing conditions, the feeder would receive a fair return for his feed and time and the owner or supplier of the cattle would receive a reasonable return on his investment, commensurate with risk.

The first advice to the man considering feeding on shares or lease, however, is, "Be cautious; above all else, do not rush in until the feeding conditions have been studied and all the essential details set down in contract form." Live-stock sharing contracts made hurriedly or thoughtlessly have usually proven to be inequitable and consequently they have been short-lived. Nothing can ruin an otherwise fine friendship faster than an ill-conceived, two-party feeding arrangement.

Judging from Western Canadian experience, share contracts have proven to be more generally satisfactory with breeding sheep than with breeding cattle and there has been no particular incentive to produce pigs on such a basis. There is comparatively little trading in feeder pigs since breeders and raisers nearly always feed their animals out to market weight and finish. Furthermore, the sow's natural prolificacy, giving litters of eight, ten or more pigs at a time, reduces the feeder's problems in getting sufficient numbers to be worthwhile and thus it works against the attractions that might otherwise go with co-operative feeding plans. And so, pigs have had the least to offer when share operations have been considered.

Some quite successful share contracts have been in operation with breeding flocks of sheep and some of the business arrangements have persisted for five years and more to prove that they were equitable and working to the advantage of owners and feeders alike.

In most of the share contracts involving breeding sheep the party furnishing ewes and rams and the party providing feed and care have divided proceeds from wool and lambs on a fifty-fifty basis after sufficient ewe lambs have been retained for ewe replacements. It is thought, however, that such a split in revenue is not entirely fair to the feeder and caretaker and that he should be entitled to 60 per cent or 66 2/3 per cent of the returns as long as the breeding flock remains the property of the purchaser and is maintained in numbers for him.

The margin of profit in cattle feeding or fattening over the years, has been reasonably attractive; but still, it has been narrow enough that unless the revenue split in a two-party program is made with the utmost care, one of those parties will receive the profit while the other gets only a bit of unfortunate experience.

Three plans for contract cattle fattening have been employed in Western Canada and there have been many modifications of each. The simplest plan and perhaps the least equitable, consists of the feeder-operator undertaking to fatten a group of cattle placed with him for the gain alone. In such case, the feeder taking 50 yearling steers weighing 700 pounds each would be starting with a total of 35,000 pounds. Let it be assumed that one steer died during the fattening period, and that in due course the feeder turned back to the owner, 49 fat steers weighing 1,000 pounds on the average, or a total of 49,000 pounds of cattle. The feeder's reward for the feed provided and his labor in connection with the transaction would be 14,000 pounds of live weight at the average selling price commanded by the entire group.

Based on experimental records, the chances are that the feeder's return would little more than pay a fair price for the feed the cattle consumed, leaving little or nothing for labor and equipment, while the cattle owner, provided feeding was conducted properly, would sell his 35,000 pounds of live cattle at fat steer prices, probably two or three or four cents a pound above that which the unfinished or feeder cattle would have brought. Thus, the advantage in this plan is very much in the owner's favor.

By a second plan, the feeder takes the owner's cattle with a guarantee that he will be paid a fixed price, say 20 or 21 cents a pound for gains. As the feeder receives no benefit from the increased market value of the original weight, the per pound prices for gains could be expected to surpass by a little the price of fat cattle at the beginning of feeding. When the

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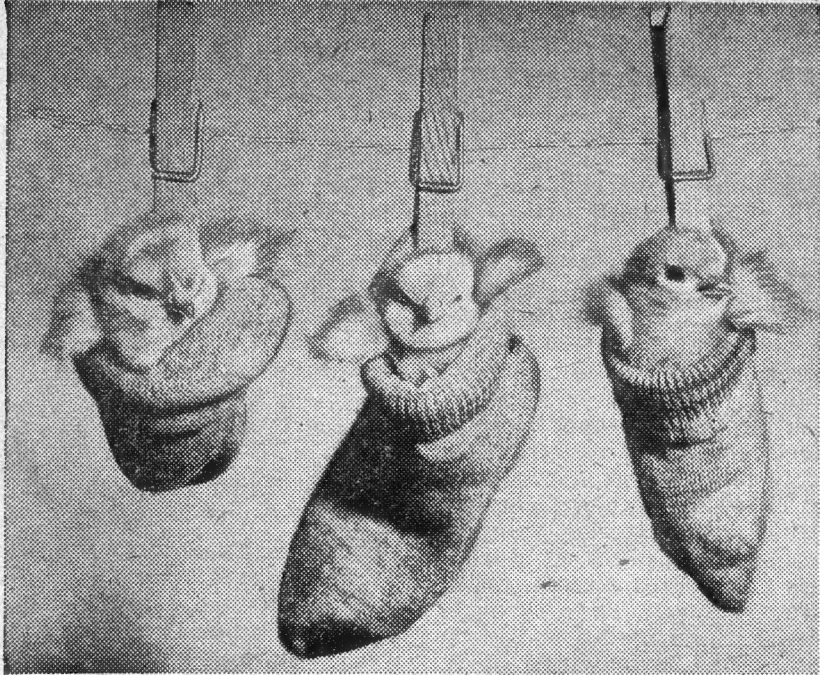


Photo by Don Smith.

owner assumes all risks with respect to market fluctuations, he assumes claim to most or all of the margin benefits.

Presented, herewith, as the most equitable basis for share feeding, is the proposal that the feeder take the gain in weight, plus half of the increased value of original weight (or margin), and that death loss be shared. In an Alberta feeding contract that offers a good prospect for success in the current year, the owner is assuming two-thirds of veterinary costs and death loss based on the initial feeder weight and price, for the first 30 days the cattle are on feed and one-third of the same for the balance of the feeding period. By this particular contract, the owner is responsible for delivering the feeder cattle at the feed lot and the feeder-operator undertakes to transport the finished cattle from feedlot to market.

Whatever the basis for share feeding, the plan should be discussed thoroughly, resolved to the simplest form and set down in a written contract.

Someone must assume the responsibility for keeping accurate records, although the extent of the records will depend upon the particular working formula adopted. In most cases it will be absolutely essential that the exact weight of the feeder cattle going on feed be determined and in all cases, it will be desirable.

There should, of course, be some understanding about the kind and quality of cattle to be furnished for fattening. The text-book may advise that none but the best quality cattle be furnished but fancy feeders are not always the best gainers or the most profitable boarders. None but healthy cattle should be considered, but thin cattle, if in good health, will out-gain the half-fat feeders.

A decision should be made about ages and sexes. Will the cattle to be furnished for the co-operative feeding be heifers

or steers? Will they be calves, yearlings or two-year-olds? Heifer feeders will make almost as good gains as steers and will finish more quickly but there is ever increasing market discrimination against the heifers, the older they become, and, therefore, the probable margin between buying and selling prices can suffer.

As for calves, yearlings and two-year-olds, it should be understood that the younger cattle are capable of making a unit of gain on the least amount of feed. But those young cattle will be more fastidious about quality of feed and, as experienced feeders know, mortality losses run slightly higher among calves than among yearling and older feeders.

Finally, those who wish to feed on a share basis must realize that cattle feeding is never conducted without risk; cattle may die; markets can collapse and animals might fail to respond to their rations. Risk as well as investment, feed and labor, should be considered in arriving at a working arrangement. The person who assumes risk, deserves reward, but as the individual risk is reduced by sharing it, so is profit.

But irrespective of the nature of the business arrangements that surround the feeding enterprise, more cattle should be fattened in the West where both unfinished cattle and suitable feeds are always available. Each year, the Mid-Western Provinces send trainloads of those unfinished cattle to Eastern Canada to be fattened on western grains. Feeding more western grains to western cattle in the West would seem sensible.

Ideals are like stars; you will not succeed in touching them with your hands. But like the sea-faring man on the desert of waters, you choose them as your guides and, following them, you will reach your destiny. — Carl Schurz.

Feeding tips for dairy farmers

HOW can a dairy farmer save money on winter feeding without lowering nutritional standards?

The Manitoba Department of Agriculture's dairy branch gives this advice:

1. Feed the highest possible quality hay or silage. Thus you make sure that the cow doesn't use up part of her comparatively expensive production ration for maintenance.

2. Don't waste grain on low yielders and stale milkers.

3. Feed grain according to milk production. Don't use guesswork.

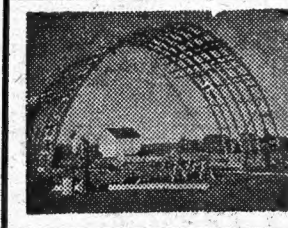
4. Assess your milking technique. Make sure the full potential let-down goes into the pail instead of being re-absorbed because of slow, inefficient handling.

5. For very good milkers, use one pound of grain to 3½ to four pounds of milk; for good milkers, one pound of grain to five pounds of milk and for average milkers, a pound of grain to six or more pounds of milk.

6. A milk cow must produce about 225 pounds of butterfat a year to pay for the fixed costs and the grain ration needed for milk production. At the present average yield of 280 pounds of butterfat, dairymen receive \$57 a cow for labor. Aim at 350 or more pounds of butterfat per cow to lower the fixed costs per unit of milk production.

Making garbage into fertilizer is spreading. Recently developments on this work have been reported by the International Federation of Agricultural Producers from England, Jamaica, Holland, and United States. Now IFAP reports in Australia is a town changing 320 tons of garbage a week into 50 tons of fertilizer.

The Canterbury Municipal Council at Lakemba has in operation a plant which changes the garbage into fertilizer. The end product is sold for 35 dollars a ton, and is sold in smaller quantities for home garden use.



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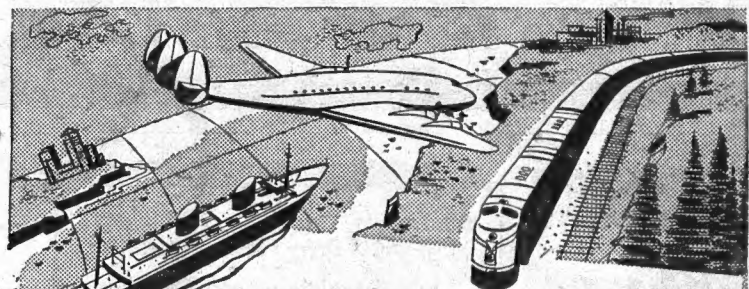
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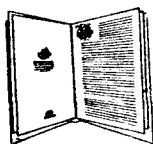
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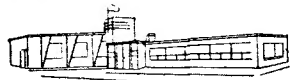
WHO IS RESPONSIBLE FOR EDUCATION IN ALBERTA?



Who is responsible for Education in Alberta? Does the B. N. A. Act require the Province to establish and finance schools? Many people firmly believe that such is the case. They are convinced that the Province is required to provide for the education of young people, and therefore should under-write the cost of such an undertaking. In effect, however, the B. N. A. Act states that the federal government may not control education: its control must be left to the people of each province to exercise as they see fit. It is up to the people of Alberta to decide whether education is to



be a matter for local, or for provincial control, or partly one and partly the other. In practice the Alberta Government has adopted a middle course. By such statutes as the Department of Education Act and the School Act, the legislature has created a Department of Education, with its Minister, on whom certain powers and duties are placed. These include responsibility for the preparation of courses of study, the selection of text-books, the certification of teachers, the preparation and marking of departmental examinations, the financial assistance of local school authorities, and the provision of certain supplementary educational services. The Legislature, following long Canadian



tradition, has also created local school authorities (divisional district, and county boards), to whom it has delegated certain duties and given certain powers. In general, school boards are expected to provide and equip school buildings, to maintain them in operating condition, to appoint teachers and other employees, to provide transportation for pupils as needed and to requisition from municipal authorities much or most of the money needed for these services.

But whether the Minister of Education is approving the choice of a new text-book, or a local trustee is investigating a leaky school roof, it must never be forgotten that each is performing his function on behalf of the people he represents. The power they exercise is wielded as stewards for their fellow citizens. Thus, there ap-

pears the unavoidable conclusion that all adult citizens of Alberta are responsible for education. And from this, it follows that the quality of education depends, at least in part, on how well and conscientiously Alberta citizens perform the duties which civic responsibility demands.

Why should any person be responsible for the education of any children other than his own? The answer, of course, is that a modern democratic people, for its continued existence as such, must be founded on an intelligent and informed electorate, on people who understand the meaning of democracy



and who have the will, the energy, and the skills to put its principles into practice, and to make the best possible contribution to one another's welfare. In other words, democracy cannot continue to exist if a large part of the population are ignorant or indifferent to their democratic rights and duties. Thus is established a fundamental principle in Alberta education; one of its purposes is to train all boys and girls to become effective citizens of our Province and our country.

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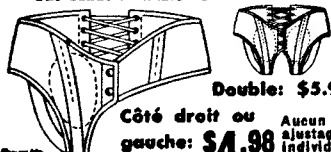
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Winter color in prairie gardens

By H. F. HARP

MOST of us at one time or another have been enthralled by the beauty of autumn leaves in the wildwood in man-made park or grove, perhaps in our own back-yard. At this season of the year we would do well to consider the merits of those species and varieties of trees and shrubs that, by their colorful leaves, showy fruits or highly colored bark add interest and enjoyment when frost has blackened the tender annuals. Nor are those fruit-bearing trees and shrubs a joy in themselves alone. They provide abundant and highly nutritious food for the hardy winter birds. The choice of plant material which may be counted on to light up the late autumn and winter landscape is wide and varied, Prairie nurserymen have a good selection of these plants home-grown, hardy and reliable.

One of the most handsome trees for autumn effect is the showy mountain ash. The foliage takes on brilliant shades of orange and fiery-red; the scarlet berries are produced in abundance. The Sen Buckthorn or Sandthorn tolerate saline soils and where Mountain Ash has been found difficult to establish due to high lime soils, the Buckthorn should be tried. Its greyish foliage is attractive during the summer season and later great masses of bright orange colored berries hang on the plants until spring. More than one specimen should be planted as flowers of one sex only are found on a single plant. The native High-bush Cranberry or Pembina is handsome in flower and fruit which is borne in pendulant clusters that persist through the winter months; in fact, dried fruits are often observed in July. The High-bush Cranberry will tolerate a semi-shady spot, but more fruitful specimens are seen in full sun.

The Cherry Pinsepia has the merit of very early leafage, pretty, yellow flowers which are followed by crimson cherry-like fruits. These will hang on the plant throughout the winter season. Cherry Prinsepia makes an attractive hedge and one that is well armed with sharp spines.

The Ginnalian or Amur Maple is one of the most valuable tree-shrubs. It is very attractive during the summer season with glossy foliage and rosy-red seeds. Later the whole plant lights up with intense color: brief though this colorful period is.

Ginnalian Maple is splendid for a tall hedge. The site chosen should be well drained and free of alkaline. A slightly acid soil will suit the maples much better than high lime.

The Schubert Chokecherry is

new, perfectly hardy and desirable. It is recommended where purple foliage is required. Schubert is unique in that its foliage first appears as ordinary chokecherry by midsummer, the leaves turn purple and stay that way until season's end.

The Mongolian Oak is fully hardy, slow growing and useful for small gardens. The foliage turns nut-brown in the fall and persists well into winter.

The Ohio Buckeye is a good substitute for Horse Chestnut where this tree cannot be grown. In prairie gardens the Horse Chestnut kills to snow-line or below, while the Buckeye is perfectly hardy. It merits much wider use as a specimen small tree; its handsome leaves are changing in September to a brilliant shade of orange-red. The nuts resemble closely those of the Horse Chestnut and are abundantly produced in most seasons.

The Burning Bush or Euonymus turkestanica is a fine dwarf shrub bearing fruits not unlike the Bittersweet. The foliage turns a purple shade in fall.

The Japanese Tru Lilac is non-suckering and flowers after the French Lilacs are over. Its large panicles of creamy-white are showy by tawny-colored seed pods which are attractive throughout the winter. The Amur Lilac is a similar plant, more compact and less tall. The hardy Shrub Roses include many interesting plants esteemed for ornamental fruit and winter color of stem and twig.

The Atoi Rose bears an abundance of purple-black fruits that stay on the plant all winter. The Turkestan Rose (Rosa Laxa) has large, handsome, bottle-shaped fruits of brilliant red. The Bristly Rose of Newfoundland (Rosa Nitida) deserves to be more widely planted. Its glossy, bronzy-green foliage turns a vivid orange-scarlet in fall. Fruits are scarlet; stems and twigs are reddish.

The Hansen Hedge Rose is extremely hardy and one of the most fruitful of all roses. Masses of scarlet hips are produced every year in great



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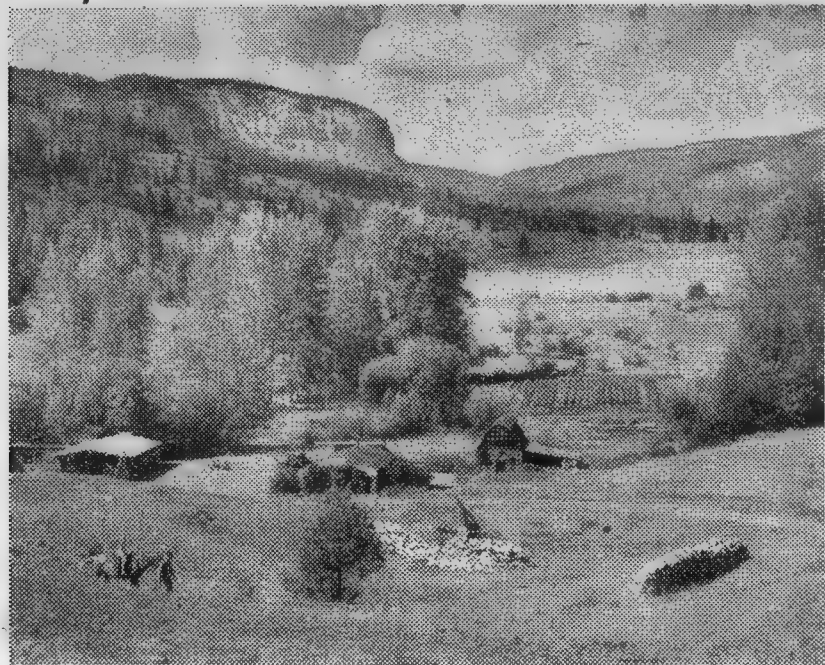


Photo by Clemson.

abundance. It makes an excellent food plant for the winter birds. The Golden and Red Stem Willows are among the most useful plants for winter bark effect. By cutting down established plants in April each year, new shoots will put on six feet or more growth which will provide bright patches of brilliant yellow and red in the winter landscape.

The Laurel Willow has heavy, glossy foliage and green stems. A sheltered spot should be chosen to establish this variety as it appears to be more tender than the Golden or Red Willows. The Red Osier Dogwood has winter bark of a reddish hue. The old wood is best removed every second year to keep the plants healthy and vigorous. This pruning is best done in spring.

Evergreens

The Evergreens compliment the colorful deciduous shrubs with their sombre shades of green. Native and Colorado Spruce make good hedges or may be planted as individual specimens. Both should be given ample room as they grow fairly rapidly once they have become established.

The Pines need a light, well-drained soil. Scotch Pines will make picturesque trees, where shelter and suitable soil conditions are available. The Mountain Pine makes a broad bush, sometimes reaching twenty feet.

Dwarf varieties are useful as foundation plants. A northern or eastern exposure is preferred for all varieties of evergreens used as foundation material. The Swiss Stone Pine (Pinus Cembra) is an ideal Pine for the small garden. Its natural outline is pyramidal; its foliage rich dark green. Specimens have reached a height of forty feet in Manitoba.

The hardiest Cedars or Arbor Vitae are Ware's and the Pyramidalis form of the Western Cedar, providing the latter is obtained from prairie nursery-

men who propagate from hardy stock. Many of choice varieties of Cedar must have good shelter or they will likely brown from winter injury.

Seasonable Hints

House Plants — At the approach of the shortest day, all house plants need careful attention to watering or soft growth will result. Much of the trouble with house plants over winter results from excessively high temperatures and too much water.

African violets need plenty of light to induce abundant bloom. Use water which has been warmed to room temperature and allow the soil to become fairly dry before applying water. Small pots not larger than four-inch size are the best for African Violets.

Repotting had best be deferred until after the turn of the year. February is a good time to overhaul house plants. Established plants which have exhausted the supply of plant food in their pots should be given a spoonful of complete fertilizer now; this will carry them along until they are repotted.

Dutch Bulbs

A weekly inspection of the Dutch bulbs now in the basement will be needed from now on. A lack of water once these bulbs have started to root will be disastrous; also a state of prolonged saturation must be guarded against. Paper white narcissus which were potted in September may be brought up from the basement the first week in December if they are wanted in bloom at Christmas time. Other Narcissus and Daffodils will not be ready for several weeks after. All potted bulbs must be well rooted and sprouted before they are introduced into the warmth of the living quarters. Better allow them a week or so longer in the basement than bring them up too soon. Poor, short-stemmed flowers are usually the result of attempting to force the flowers before they are well rooted.

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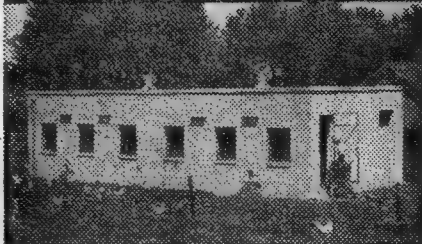
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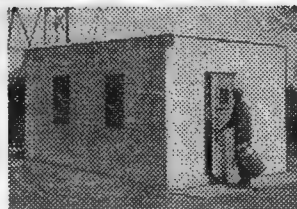
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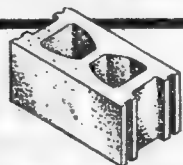
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Ready for winter inside the stick house

By KERRY WOOD

THE beaver house was on the north bank of the creek, exposed to the full glare of sunshine on a November day when the temperature was unseasonably high and very welcome. I had approached quietly, hoping to sight one of the animals. As freeze-up approaches every autumn, beavers occasionally work a daylight shift to finish all their outside chores before winter seals them under the ice. But this time, it was much too nice a day for working. Standing beside the sprawling tangle of sticks that so clearly marked the site of the lodge, I heard a steady, rhythmic sound from the interior of that house. A beaver was snoring, and loudly!

Yet the slothful animal had been busy. Downstream, the dam was in good repair and had been raised to hold back more water when the autumn work started. The house had a fresh coating of mud on the lower walls, the gooey stuff dredged from the bottom of the creek ten feet out from the lodge. Then the hole formed in the creek floor by the dredging had been utilized as a food-cache pantry.

On shores around the pond there were several creamy-topped stumps of aspen and balsam poplars, marking the spots where trees had been harvested for winter use. A few large sections of rough-barked trunks

lay discarded near the gleaming stumps, but almost all of the branches and green barked wood had been dragged to the water's edge, floated over to the deep hole in front of the house, and there pushed under the surface and wedged into the jumble of sticks that would provide bark-food for the animals all winter long. Capping the cache was an array of green willow branches.

Oh, yes: the animals had been busy. The dam was tight, the house was large, and a count of stumps revealed that they had felled and harvested over thirty trees for their pantry. That meant a family was living in the lodge and not merely a pair of newly weds. Indeed, I happened to know that the dam had been built the previous autumn, the house established then and the female having her young during the following June.

She carried leafy willow branches into the house to feed the kits as they were being weaned, and later, it was a pleasure to watch the mother guide the four youngsters outside one balmy evening for their first look at the world. They grew rapidly as summer waned, but were much smaller than their parents when the autumn work started.

Only one beaver was snoring, yet probably the whole family of six animals were snoozing in the lodge on that lovely November

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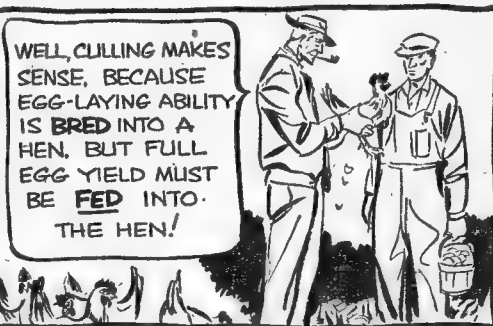
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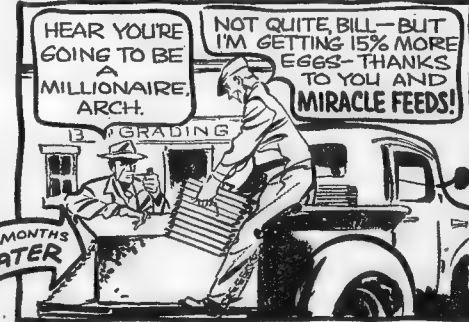
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Kerry Wood's New Book

Followers of Kerry Wood's column in the Farm and Ranch will be happy to know he has a new book out. It is the sixth he has published and the first one published in the United States.

The new novel is called *Wild Winter* and it's an apt title, for this is the story of a boy who went off into the woods to live off the forest while he worked to become a writer. Callon's struggle to stay alive makes exciting reading. We think *Wild Winter* is the sort of book that belongs on a farmer's Christmas list. It is available through any book-seller.

THE EDITOR

day. During boyhood years I had once dived inside a deserted beaver house for a look-see, and had inspected the interiors of other houses whenever floods washed out dams and left the lodges stranded high and dry. So it was possible to picture what the inside of that house looked like, right then.

There is a standard pattern about beaver house construction. First, the animals pile up a heap of sticks, then they tunnel a hole from the deep water in front to the middle of the stick-pile. Next a den-room is gnawed out inside that mound of sticks. In the middle of the den floor, the water hole measures a foot wide and a yard long.

On each side of that watery entrance there is a sleeping platform or ledge. Headroom is scanty, as a beaver is a squatly built animal and therefore does not require a high ceiling. Walls and ceilings reveal many teeth marks, where branch-ends have been chewed off to form the hollow den space inside the tangle of sticks. The chips from this chewing process form an inch matting or covering on the floor. Outside walls of the structure are always plastered with mud in northern districts, to protect the animals from the bitter sting of winter winds. But rarely is the mud coating all over the roof — thus permitting natural ventilation of the den-room through the unplastered portions of the stick-mass.

Small House

The first house built by a pair of young beavers is small, but is enlarged the second year to accommodate their family. Beavers have from two to five kits, and the house size sometimes depends on the number in the family. The family lives peacefully together all winter long, not sleeping all the time but busy at small chores. The dam is inspected daily, the food-cache frequently visited to secure branches for bark-food whenever they are hungry, and through clear ice I have watched beavers scrounge along the creek bottom to gather water-preserved leaves for food.

When the thaw comes during April, floods sometimes smash their dams. There is a flurry of spring work, repairing dams and going ashore in search of fresh greenery — leaves of dandelion, clover, plantain, and many other favorite foods. At this time of year, the yearling beavers born

the previous June are nearly as large as the adults. And as a second June approaches, the mother animal becomes very cranky. She nips at her mate and is impatient of her last year's family. Sometimes the adult male will leave the home lodge to take up temporary quarters in a bank hole a short distance away.

The time has come for the yearlings to leave home. Before the new kits are born, the mother routes her grown family from the house. The yearlings go up or downstream or overland. They wander all summer, pairing towards the end of August. That's when they choose a new homesite and build a dam, a house, and collect a food-cache for winter.

Meanwhile, at the old home Ma and Pa and the season's kits have also been busy. The dam is raised and the cache hole deepened, the house had been piled high with new sticks and coated with fresh mud. Food trees are felled and severed and stored in the pantry. The animals will even keep a hole open through ice that is six inches thick, so long as stream banks are bare of snow and it is comfortable for them to forage for food. But finally, everything is ready for winter's coming.

And that's when you may visit the colony on a sunny November day, stand alongside the strong-walled lodge and listen to the contented snores of provident Old Pa Beaver!

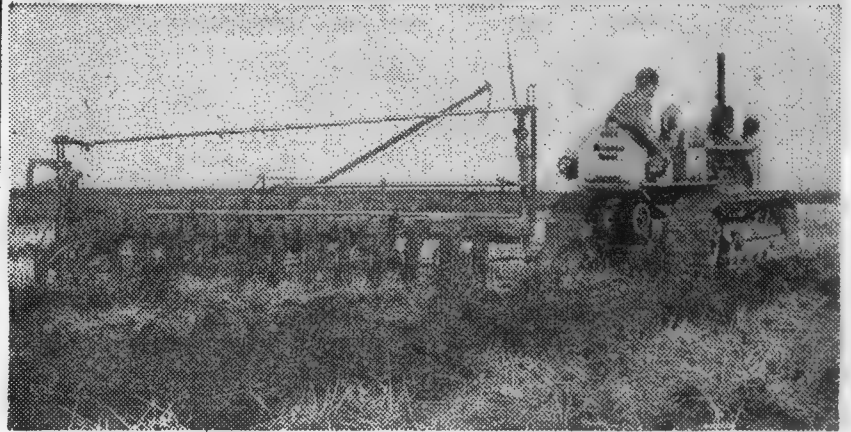
Wheat exports

WHEAT and wheat flour exports from Canada in the 1953-54 crop year amounted to 255,147,150 bushels according to preliminary report of the board of grain commissioners. This was about one-third less than the 385,526,541 bushels exported the previous year and about equal to the long-time average of 254,400,000 bushels. A few of the leading importers of Canadian wheat with their purchases in the past two years are as follows:

	1953-54	1952-53
	million bushels	
United Kingdom	82.1	122.8
Japan	40.4	15.0
Germany	20.7	24.3
Belgium	13.3	20.9
Switzerland	9.9	10.5
Brazil	7.7	1.5
U.S.A.	7.7	23.1

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A Little Wheat— A Little Chaff

By IVAN HELMER

From the newspapers we learn that:

A woman in Springfield, Mo., with ten children, and the eleventh on the road, seeks a divorce on the grounds that her husband is "cold and indifferent."

And that:

A 42-year-old English bachelor who recently won 75,000 pounds (net) on a soccer pool is receiving hundreds of marriage proposals by mail.

The man, a farmer with 53 acres, said: "The shameless hussies write and tell me they have always wanted to be a farmer's wife." He adds, "But they didn't want me before and they ain't a gonna get me now."

And from the Jasper Place (Alta.) Citizen we find out that life in one place is much the same as another. Thus:

"Chicken on the Way" ran a week's ad in the Citizen on the understanding that if he got no results the ad would be taken out. The ad is out this week, not because he did not get results, but because he got too many calls, and got stuck every time he tried to deliver an order. He says he will advertise again when the roads are in better shape."

The automobile carburetor is still a pretty crude affair—too much money gets through it.

No doubt, like us, every time you take a car trip any more, you wonder how some of the drivers you meet keep alive. The answer is that they don't. They're the fatalities and smash-ups we read about tomorrow, or next week, or next year. We should say they are part of the fatalities—the balance consists of their vehicles; passengers, or innocent sensible people driving sanely along minding their own business.

Many people who first scan the the obituary column and the divorce column of their newspapers, "to see if they know anybody" before reading the rest of the paper, have added a third column; the Driving While His (or her) Ability Was Impaired column.

The average woman doesn't have any foolish forties because she isn't foolish enough to let herself get into the forties.

The national Motorist has a new definition for a radio announcer: A fellow who talks until you have a headache and then tries to sell you something to relieve it.

Few of us know the troubles the other fellow has. For instance last Sunday a gent (a stranger to us) called at our door in considerable agitation. Seems his family had gone vacationing leaving him in charge. He had just had an urgent order from his boss to get out of town — on business. Well his problem was that his kids had some goldfish. Their food (the goldfishes) was all gone and being Sunday he couldn't find any for sale. So he was going from house to house looking for goldfish owners with a surplus of food. The best we could do was offer him some six-bit sherry to sooth his agitation, but he said he was a tee-totaler and hurried off with a worried look to our next-door neighbor's.

A lot of foreign officials come over here for no other reason than to get fed-up.

The hobo, the tramp, the bum hasn't disappeared. He's just bought some razor blades, put on a clean shirt, and deserted the railroads. Instead of lurking behind the village water-tank, or a box-car, he's out on the edge of every highway, bold as a paying guest, with his thumb up.

Every now and again someone comes up with an invention that is really worth while. At a recent convention of Standard Oil Development all speakers were required to use a new Electronic Electern. With this device a speaker was allowed so many minutes to talk. With two minutes to go an amber warning light flashed on. Time up; a red light came on. If the gent droned on after this fumes from a smoke-bomb choked him and drove him to his seat.

What thousands of people wish they could afford these days is to live the way they are living.

We read where a psychologist says that very few men are meek until after marriage — and also that about all the earth a mother is going to inherit is that which the family tracks in on her clean floors.

Probably the most effective treatment for a hot-head is the cold shoulder.

Farmers living within TV range may be able to boost egg production by taking a tip from a man in Baldwin, Miss. He reports that a pet hen enters the house at the same time every day, perches on the living-room couch, takes a look at TV, lays an egg, hops to the window and departs.

Some great reading in old Family Remedy books. From one published about 1908 we learn the following:

For Fever and Ague: Four ounces of galganel root in a quart of gin. Take OFTEN. (This is much the same as today's cure except gin has lost favor to rum, and most victims not knowing what galganel root is, substitute honey and lemon.

How to Choose Meat: Bad or deceased meat has the peculiarity that it shrinks considerably in the cooking.

Wholesome meat rather swells and does not lose an ounce in weight. (Seems more economical.)

To Restore From Stroke of Lightning: Shower with cold water for two hours. If the patient does not show signs of life shower for an hour longer. (No further instruction so we assume that if nothing has happened one may as well finish off with a hot shower for himself and go to bed.)

We don't know of anyone who has Red Ants to Cure, but here is a remedy headed: TO CURE RED ANTS: Put one pint of tar in an earthen vessel, pour on it 2 quarts of boiling water and place it in your closet. (If this doesn't work guess you just have to let the Red Ants suffer.)

People who think this is a gambler's age should consider the following and final recipe: To make Cherry Whiskey: Onto eight quarts of well-ripened cherries pour two gallons of good whiskey or brandy —

Wow! We never read further—the risk involved in this procedure appalled us.

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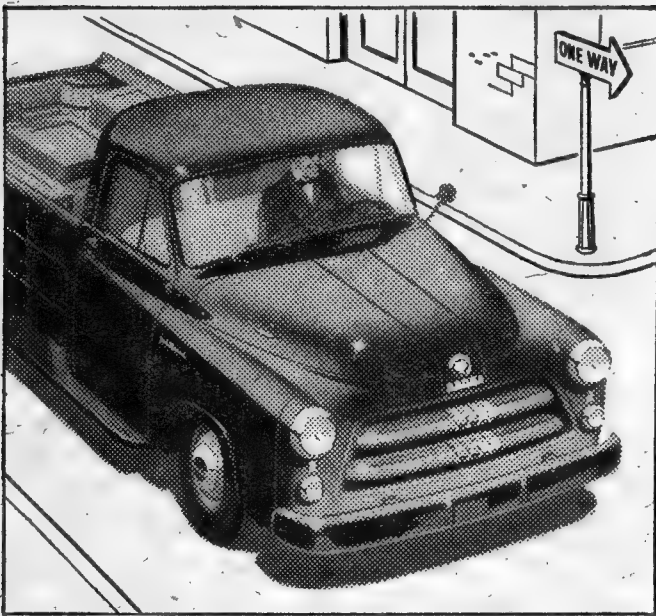
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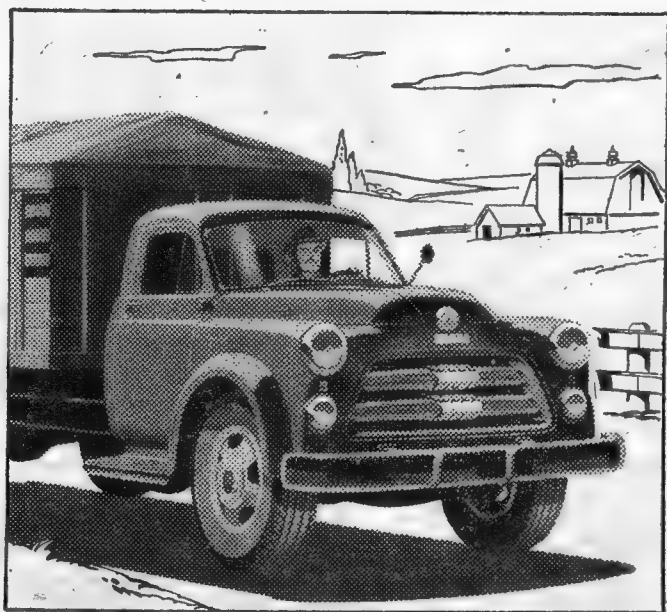
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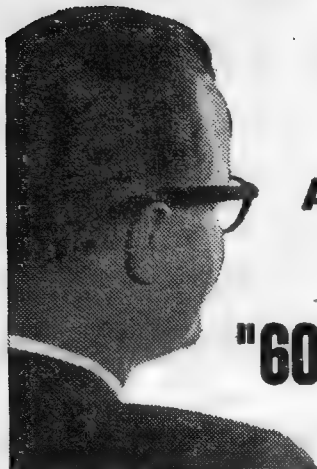
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B. C.'s district agriculturists are real field workers

By TOM LEACH

YOU may find him clerking at a community livestock auction. He might be talking tariffs to turkey growers, helping a boy or girl select a calf for club work, or he could be absorbed with his mileage report. The man with a million interests is the Ag. Rep. or more properly, the B.C. District Agriculturist.

Ideas have changed on that score too. Present requirements for the District Agriculturists in B.C. specify that they must be registered agrologists. That implies that they have completed studies at a recognized college of agriculture and have obtained their degree of B.S.A. or its equivalent.

From that point on I find that opinions are as diverse as the farm areas of the province. In fact, I exploded the equivalent of an "H" bomb at a recent conference by suggesting to several D.A.'s who were present that given the right man with the proper respect for farming and his degree in agriculture, I could turn him loose in any farm community and get more work done than many with previous farm experience could accomplish.

I still wonder how it might work out. I hope that a few of the city boys will turn the tables one of these days and take back to the country something of the spark which the rural youth has been giving to the cities for these many generations.

But my friends in the extension service in B.C. are totally convinced that it will never work that way. They say that no man who can't tell a whiffletree from the traces will ever be able to recognize which sow should be kept for breeding, differentiate between a bruise and blight on potatoes, or dictate the voluminous reports to head office.

There was little use to carry on with the argument. Never to my knowledge or to theirs has such an experiment been tried. So the only conclusion that we could find was to accept the great variation in the characteristics of those who are and have been associated with the agriculture extension service since it started.

Some we concluded had much greater farm experience than others. Some made use of the experience and others must have forgotten what they had learned on the home farm as soon as they left for school. Others would have been better off if they had forgotten more of their home farm experience.

Those who have gained the respect of their farm clientele have done so only after years of hard work. My several years of observation and association with these men has proved that phony activity and disregard for basic common sense has been the quickest parole to other jobs.

When I think of the District Agriculturists and their work my memory goes back a few years to a section of the interior which was relatively unsettled at the time. The farms were sparsely located throughout the district and the casual traveller would have found it difficult to discover an area of more than a few acres which had been put to the plow.

Missionary Work

The District Agriculturist looked upon his work as a missionary of the church regards an assignment to a new parish. He wanted to help those people by teaching them to farm well. Time meant nothing to him. He would be up in the early morning chopping his own wood to leave for his family's comfort and yet on hand to set the fire in his own office before the smoke curled upward from any business in town.

The constant flow of visitors to the office never appeared to upset his routine. A half-typed letter could wait until he explained once more the causes of calf scours or the best method to brood chicks. Even the phone calls seemed too numerous for an area which was not blessed with many rural lines. But then, most calls were messages to relay to others.

Long Day

After a long day of such routine most men would have been satisfied to go home to an easy chair, their fireplace and pipe and forget the worries of the world. Not him. The evening

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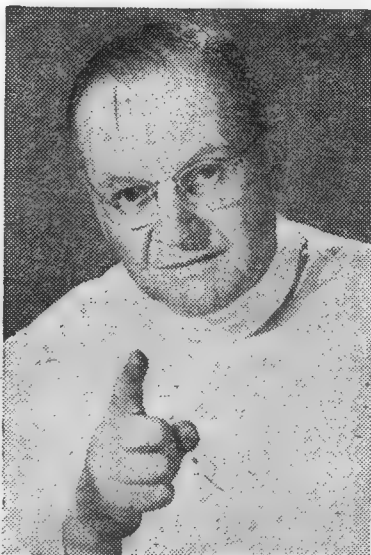
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was his opportunity to meet with the farmers. It gave him the chance to plan the program for the fall fair. At those meetings he heard community problems debated.

Late at night he strode into his own yard. Often a long hour or more after the lamps in neighboring homes had been darkened he said "good-night" to his own family.

His days were not all like that one. There was the infrequent day when he had to make a trip over into the western part of his district to inspect work of the junior farmers when he would pass over several inviting trout streams. If the invitation roared into an urge he sometimes let down the barriers for a few quick casts with his rod. Likewise the fall often prompted a few hours of shooting for grouse or even a deer.

Those were the things which irked a number of people in the community. They looked upon that snatch of pleasure as an indication that he was not on the job. It was easy for them to close their eyes at his Saturdays devoted to field days or to calls which could not be fitted into the week's work.

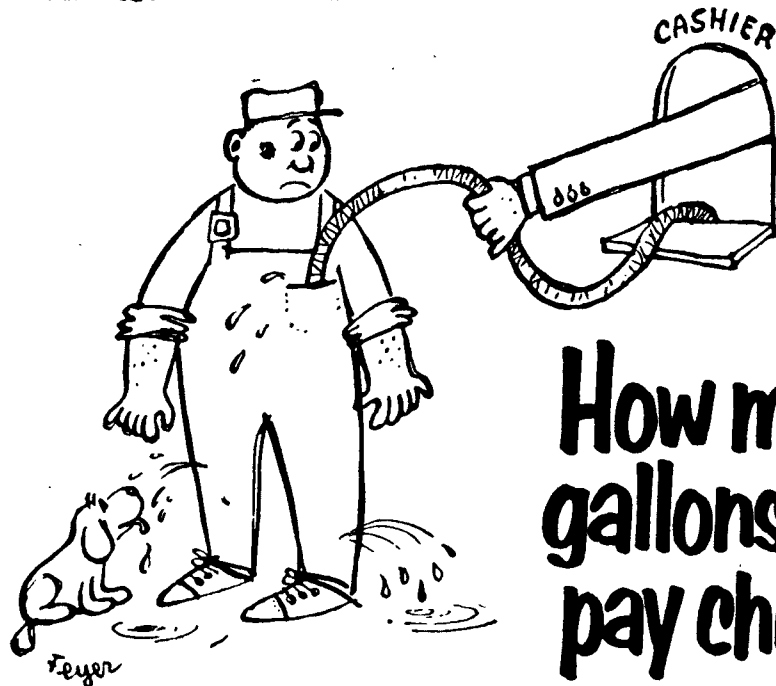
Sundays, too, were often usurped by visitors who happened to be isolated in his small community on a week-end with little to occupy their attention. They found the District Agriculturist and his wife ideal hosts for such an occasion. An invitation to dinner was normal procedure.

There was some compensation for all his effort. He had the satisfaction of knowing that better crops were being grown; that production in the area had improved; and that at least a few of the young people on the farms had developed enough interest in the land and livestock that they would want to continue with rural living.

Those were the things which impelled many of the early District Agriculturists to continue work in the field of extension even after they had seen numerous friends and allied workers step boldly into the world of commerce and do much better than they could hope financially, good and the bad harvests.

Many new men have been placed in the districts since the last war. Some have the same spirit of service exemplified by those who pioneered the work among the early settlers. The problems in agriculture differ somewhat; those engaged in farming have changed; but underneath I find the soil is just as fertile now and as easy to work as it was when it was first broken.

The field of extension requires as much effort and intelligence to cultivate as ever. Answers to many questions will not be found in texts nor will the problems be solved from the side of the office desk. The initiative shown by the pioneer extension workers will prove a wonderful tool in the hands of the new District Agriculturists.



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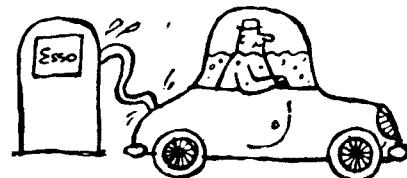
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There is a cantankerous streak in every cow

By HARRY J. BOYLE

DON'T ever trust a cow! I have found from experience here that a cow may look at you with innocent, velvety eyes and at the same time she may be planning destruction to some part or another of the farm. The trouble with a cow is that you place trust in her ... because she has the appearance of a saint; but she really has the heart of a sinner.

We have an oat stubble field with a good patch of clover on it next to the house. Jessie, our brindle cow, seemed more or less dissatisfied with the withered pasture of the field south of the barn and I decided to give her a treat. In the afternoon the cows were herded through the barnyard and into the stubble field. You should have seen the way Jessie looked back at me. She sniffed over a few clumps of clover, and with a quick swish of her tail at a cluster of flies on her back set to work.

I began to think in terms of how good a cow she really was. Her last calf was a bouncer, well on the way to becoming a baby beef. She had been giving rich, creamy milk that has sent our test up quite high. And with cream at the price it is now, it seemed a shame that Jessie hadn't been treated better this summer. The pasture has been burned badly as a result of a blazing July sun, and there were many times when we could have given her a few handfuls of chop as a treat.

When we went up to supper the cows were still enjoying the clover. Jessie was munching along steadily near the barnyard gate. She looked up, tossed her head as much as to say, "This is the life," swished in an all-out blitz against the flies and went on eating. At supper-time I mentioned the fact to my wife, but she wasn't convinced. On several occasions Jessie had kicked the milk pail flying and that is one fault my wife finds hard to overlook.

After supper I stopped for a drink of water at the pail in the pantry. It couldn't be true. Yet it was! There as large as life and twice as natural, enjoying tempting greens in the garden, was Jessie. I had forgotten the loose wire between the oat field and the garden. Jessie hadn't overlooked it.

Have you ever tried driving a cantankerous cow out of a small garden? She'll allow herself to be prodded out of a corner, taking care to step on the tomato plants and as many things as she can damage and moreover to the gateway. Then with a flip of her heels, a swish of her tail and a toss of her head she'll make back for the corner you've just driven her out of.

In going back, she'll manage to massacre the cucumbers and kick a few pumpkins around. When you reach her, she'll stand stubbornly and let you belabor her backbone with a fence picket while she solemnly shifts her cud from one side to the other, and then go around the garden two or three times in the same way that a merry-go-round goes round.

That was the game Jessie played on me. My wife appeared on the scene, took one look at the damage and with a determined "Hoi-hoi," she chased both of us out. Jessie determined that it was too good a game to give up so easily and she made for the orchard. Stopping to nose over three baskets of Tolman Sweet apples I had picked for selling in the village, she tore through a bunch of chickens and sent them squawking and landed up in the one corner of the orchard farthest away from the gate.

Suchansuch, our collie pup, appeared on the scene. Bewildered by my yelling and the confusing method Jessie has, he began chasing her in the wrong direction. She sailed over the strip of rail fence dividing our orchard from the Tompkins place and swished through a field of flax, which was just ready for pulling.

Finally, with the aid of Tompkins, his hired man, the two Tompkins dogs, Suchansuch and myself, Jessie was brought back to the barnyard. She walked over quietly to the watering trough, took a drink of water and moved over to the straw stack. Her eyes were as innocent as ever ... but I still maintain don't trust a cow.

Controlling toadflax

HEAVY infestations of toadflax can be effectively controlled on good crop land by adopting a rotation of summer-fallow and wheat, according to H. A. Friesen of the Scott experimental station. He says that summerfallowing should begin in the autumn after the crop has been removed and be continued throughout the next season. Two workings will often be necessary in the fall, the first with the one-way disc and the second with a cultivator. The following year from 8 to 10 strokes with the one-way, cultivator or rod weeder will probably be required to keep the weed growth down. With such intensive tillage erosion may become a problem and strip cropping is recommended.


Chemical control of this deep-rooted perennial weed is too expensive if infestations are extensive.

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Artist's sketch of the official opening of the Seagram Collection in Rome.

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"You don't practice Christianity" An agnostic's criticism—

By DR. FRANK S. MORLEY, Ph.D. (Edin.) B.D.

THE other day an agnostic friend of mine made a bitter comment, "You know, Dr. Morley, I've been having some trouble with some of your avowed Christians which convinces me more than ever that Christianity is essentially an immoral force in our society. Your people are under no compulsion to live by a moral code that's any higher than no code at all. Good works count for nothing because the only route to Heaven is by believing. That's how you save your soul — by believing; not by living a decent, honorable life and searching for goodness and what Schopenhauer called loving kindness."

"Ever since Hell went out of fashion and the devil stopped being a force in your religion, Christianity has been going down hill morally. The worst scoundrels in a community can not only belong to Christian churches, they can be pillars of these churches. It's time you preachers forgot about the hereafter and preached some sermons on the here and now."

Ouch! The criticism hurts because it is so true! Henry Drummond was talking on a street corner to some young men who had no use for the Church. An elder of the Church

walked past and one young man commented, "That man is founder of our Atheists' Club." Drummond said disbelievingly, "How can that be? That man is one of the leading elders in the Church." The youth replied, "Precisely! If a man who lives a life like that is one of the leading people in the Church we want nothing to do with the Church."

So Burns bitterly satirized the "Holy Willies". So Hawthorne showed the brutality of some Churchmen of his day who took a woman who had committed adultery and pilloried her in a public place with the letter "A". So Aldous Huxley in "Grey Eminence", describes Pere Joseph, a man "of great and genuine piety," who rose every day at four and spent the first two hours in prayer, yet devoted his immense gifts and intellect to prolonging the Thirty Years' War". So the Communists have sung mockingly,

"They do it every Sunday.
They'll be all right on Monday;
It's just a little habit they've acquired".

No one knows better than a minister the thousand hypocrisies, the contradictions between profession and practice, the meannesses, the cruelties,

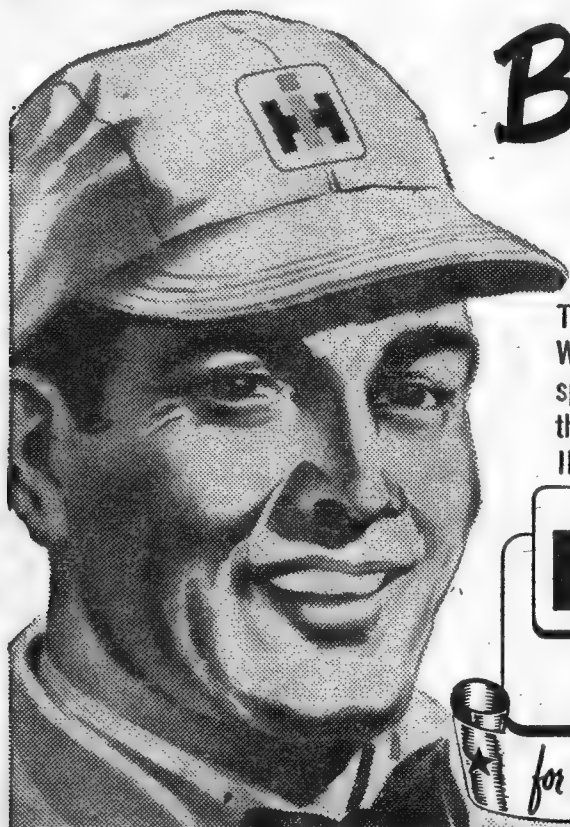
the greed, and the calculated cheats of some Church members, as well as the way they can rationalize to justify their horrid conduct! No matter how dewy-eyed and innocent at the beginning, a minister is not far on the way before he realizes that a Church is no collection of cloistered saints all ready for heaven.

And indeed as I look back over my life I can see many opportunities for kindness undone, words spoken I wish I could recall, deeds that I wish I could cancel. God be merciful to me, a sinner!

"You are the only Bible this careless world may read;
You are the sinner's Gospel, you are the scoffer's creed".

Now if the Christian Church is teaching salvation by faith detached from morality, then, as Jesus said, it is salt that has lost its savour and is fit only for the dunghill.

What is salvation? When Zachaeus said, "Behold, Lord, the half of my goods I give to the poor; and if I have taken anything from any man by false accusation, I restore him fourfold", then Jesus replied, "This day is salvation come to this house". When Zachaeus became



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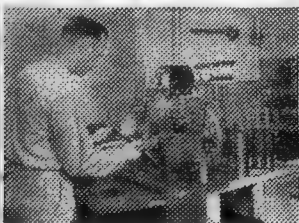
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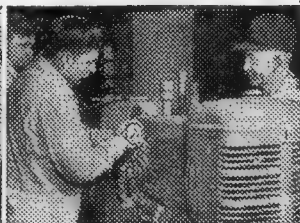
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honest, Zachaeus was saved!

Jesus said, "Not everyone that saith Lord, Lord, shall enter into the kingdom of heaven, but he that doeth the will of my Father". Just read the whole of the twenty-third chapter of Matthew's Gospel with such words as, "Woe unto you, scribes and Pharisees, hypocrites! for ye make clean the outside of the cup and of the platter, but within they are full of extortion and excess... Ye are like unto whited sepulchres, which indeed appear beautiful outward, but are within full of all uncleanness... Ye serpents, ye generation of vipers, how can ye escape the damnation of hell?"

Read the prophets like Amos—"I hate your feast days... Let Judgment run down as waters and righteousness as a mighty stream". Read James, "Be ye doers of the word and not hearers only... Ye see then how that by works a man is justified and not by faith only". Read the first Epistle of John, "He that saith, I know Him, and Keepeth not His commandments, is a liar, and the truth is not in him". Read Paul's letters with their terrific rebukes of wickedness and their emphasis on love as the greatest thing in the world. What are the great commandments according to Jesus? "Thou shalt love the Lord thy God... and thy neighbor as thyself". If the Christian Church does not emphasize goodness in life, then certainly it has betrayed the Christian Gospel. It has also betrayed its traditions.

For, despite the Judases—the men who have denied and betrayed Christ—there is very little good in the world that does not come from the Christian faith. The Crusaders did have much wickedness but, although some homes for sick had existed previously, they did originate the modern hospital. A Quaker, William Tuke, built the first hospital for the insane. The movement for settlement houses was begun by Canon Barnett of Toynbee Hall. Joseph Howard and Elizabeth Fry pioneered the way to prison reform. Devout Christians like Lord Shaftesbury and William Booth stirred man's conscience regarding prison reform. Grenfell gave his life for the social welfare of Labrador. Missionaries like Livingstone and Robert Moffatt fought slavery and social evils in Africa.

Great Works

Indeed who can measure the vast work of those missionaries who brought the Gospel and schools, hospitals, nurses, doctors, good roads, teaching and healing vans, through Asia, Africa, and barbarian islands? Going further back, look at the work in Europe of monasteries and Christian teachers.

The historian Green says that home, as we conceive it now, was the creation of the Puritan. Froude contends, "The Calvinists abhorred, as no body of men ever more abhorred, all con-

scious mendacity, all impurity, all moral wrong of every kind." In Europe the height of praise was to be "honest as a Huguenot". A contemporary writer described the Puritans who settled New England, "One might dwell there from year to year and not see a drunkard, or hear an oath, or meet a beggar". Cruelty to animals was a civil offense. Their criminal law was two centuries ahead of their times. Bancroft could find among them no example of divorce.

Modern universities have been founded by the Christian Church. The Labor Union movement was created by the Christian Church. The Encyclopaedia Britannica once recorded that it "feels bound in justice to make this remark", that Calvinists have been "the highest honor of their own ages and the best models for imitation in every succeeding age". Taine, a sceptic in religion, testified of the Puritan conscience, "Strict in every duty, attentive to the least requirements; disdaining the equivocations of worldly morality, inexhaustible in patience, courage, sacrifice; enthroning purity on the domestic hearth, truth in the tribunal, probity in the counting house, and labor in the workshop". Modern democracy and, indeed, the British constitution and the constitution and freedom of the United States, were the achievement of the Puritans.

But one could go on forever talking about the past. My friend's criticism is of the present. What association has faith and morality today?

In the last five years, forty commercial enterprises have hired chaplains to minister to the spiritual needs of their personnel. In the United States, in more than twenty cities, laymen's groups have been formed by businessmen for the purpose of applying spiritual values to industrial and commercial problems. Devotional services of an inter-faith character are held regularly in over a thousand companies. Clarence Woodbury tells of his astonishment at being taken before luncheon to a chapel in a hotel where a group of businessmen gather for weekly prayer meeting.

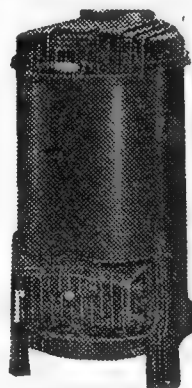
There are laymen like Judge Harold Medina, who tells us how he prayed for guidance during that great Communist trial; Judge Luther Youngdahl whose great humanitarian services led to his selection as the "Outstanding Layman for the Year 1949"; James Kraft, whose business became an offering to God and who has given vast services to the International Council of Religious Education; John Foster Dulles who says that it is not enough merely to declare our Christian principles, but we must get into the public arena and fight for them; Howard Pew, former president of the Sun Oil Company, who has received a citation from laymen of different Churches

(Continued on page 22)

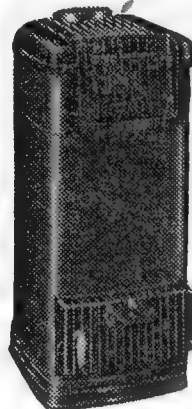


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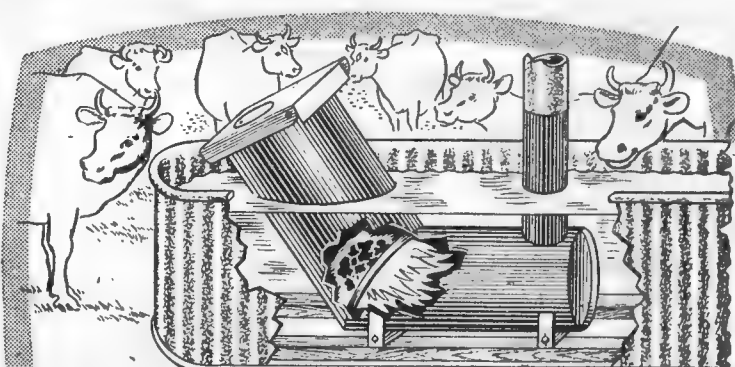
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Sweetening make feeds go farther

A LITTLE "sweetening" on the lower quality roughage you feed your livestock will make it go a lot farther and reduce waste, according to livestock authorities of North Dakota Agricultural College.

By appealing to their liking for the sweet stuff, molasses tempts cattle and sheep into eating feeds they would otherwise refuse. This means less feed is wasted and, in effect it increases the usable feed supply on the average farm or ranch, points out Mel Kirkeide, assistant livestock agent of the Extension Service.

He explains you can use molasses in livestock feed for up to one-third of the higher-priced feed like corn. In 6½ gallons of molasses you have about the same feed value as in a bushel of yellow corn.

From the practical dollars-and-cents standpoint, when you can buy 6½ gallons of molasses

for less than the cost of 1 bushel of corn, you are money ahead to feed molasses. Then, too, molasses helps to stick mixed feeds together, so less is lost as in the case of dusty feeds.

Experience at NDAC indicates the best way to handle molasses is to thin it out with 1 or 2 parts of water. This thinned-out molasses is then poured evenly over the top of the feed.

Kirkeide sums up the NDAC recommendations for feeding molasses as follows: 2 to 4 pounds daily per 1,000 pounds of animal live weight, for feeder cattle. For ewes, use 2½ to 3 pounds daily per 1,000 pounds of live animal weight.

In the amounts suggested here there is no troublesome laxative effects from molasses, but start molasses feeding gradually so the animals get used to it.

Weedy flavors spoil dairy products

DURING the fall months farmers' cream cheques are reduced \$6000 - \$7000, according to information received from the Dairy Branch Office. This is due to the fact that over 4% of the cream received at Alberta creameries during the fall is second grade or off grade, compared to 2% in normal months. Milk shippers, too, often find their milk rejected during this same period, again resulting in considerable financial loss.

By following a few simple rules it is comparatively easy to eliminate weed flavors, particularly stinkweed, which are responsible for most of this loss. D. H. McCallum, Dairy Commissioner, has outlined these rules to help producers:

1. Avoid pasturing the milk cows on weedy stubble fields.

2. If stubble pasture must be used remove or burn all screenings from the threshing settings and take the cows from such fields 3 to 4 hours before milking — the longer the period the more likely that the weed taint will be eliminated.

3. Check by means of taste and odor the milk from each cow at every milking. If it is tainted, use for feeding livestock.

4. Before adding the cream from any separation to the shipping can check flavor and odor — if tainted, market separately.

5. Often only one or two cows in the herd are attracted to stinkweed and the disagreeable odor can be detected on their breath as they are tied in the stanchion. In such cases milk these cows last and feed the milk to livestock.

(Continued from page 21)

for "distinguished lay service at the national level"; Paul Moser gave up a grocery business in Kansas to organize laymen for Christian work; Tom Whiteman, a chain-store executive, and Lem Jones, a candy manufacturer from Kansas City, are doing a prodigious work getting laymen to enlist as active Christians.

There was Senator Charles Tobey — "God's Angry Man" — who headed a terrific fight against public immorality; Red-Cap 42 in Grand Central Terminal, New York, who has brought joy and hope into countless lives; Dr. Albert Schweitzer, whose service on the disease-cursed country of

Lamborene is a modern epic... But where shall I stop?

The most kindly, gracious, generous, honest people I have met are in the Christian Church. Recently at a Board of Missions meeting even I was astonished at the great amount of charitable work carried on by the Church. Certainly the outside world has little appreciation of the vast charitable enterprises the Church promotes and undoubtedly 90 per cent of the charitable work done outside the Church is the work of Christians.

Undoubtedly we have traitors like Judas, but one does not desert Christ because of Judas. Undoubtedly the Christian Church falls far short of its Master's desire, but what other factory of character do we have?

but we continually exhort and rebuke. Men outside the Church just do not know the anguish and effort of the average minister — and it sure takes a lot of courage!

And we do know that no great morality can endure — or be created — except through a great faith. Without Christianity ours is indeed a "cut-flower civilization". Moreover, we know that there is no alternative. You cannot defeat bad religion with irreligion, but only with good religion.

Let us remember the late-comer to Church who asked, "Is the sermon done yet?" "No", replied the usher, "it isn't done. It's only preached".

Save yourself with sitting hens

By M. B. EVANS

DURING the last few years the "lazy farmer" has come fully into his own. They range from the peach grower in Oregon whose orchard looked a mess, compared to his tidy neighbors' rows, all neatly cultivated, to the "deep litter" people in the dairy and poultry business.

The rugged individuals who have had the nerve to forget convention in such manner are a boon to those of us who are sometimes rather slack in getting some of our farm chores done up the way we ought to! The latest in this line is the American poultry-man who, after 25 years of cleaning out henhouses and having roosting problems, went in for the deep litter idea and then, having gone that far, went the rest of the way and threw the roosts out, letting the hens just sit on the floor. After all, what is good enough for people ought to be good enough for hens!

By getting the roosts out there was more room for nests and for space for the birds to sit spread out on the floor. Also there was a great reduction in the mites and pests that get in on the dropping boards and roosts. The labor and expense of cleaning and control was thus reduced, no little item in itself. The droppings are worked into the built-up litter and, since the flock is an 8,000-bird one the saving in work is considerable.

His chickens now start out on the floor and stay there, never seeing such an old-fashioned thing as a roost. Which makes it nice for the likes of myself who never got around to putting up the roosts for the spring chicks yet and won't now, since it has got respectable to be lazy!

Conservation

DESTRUCTION of the forest on the eastern slope of the Rocky Mountains would be a fatal blow to agriculture on the prairie provinces. The forest growth in that region slows down the run-off from the mountain snow and regulates the flow of the rivers running eastward. The regular flow of

these streams is necessary to maintain agriculture and even human life on the prairie provinces.

The greatest threat to a mountain forest lies in fire. Between 1933 and 1949 nearly 3,000 forest fires were set in that area

by careless people. The province of Alberta suffered 29 per cent of the total area burned and 33 per cent of the total dollar damage by fire in Canada during the period 1940 to 1949.

Aside from the value of eastern slope forests in regulating

the run-off from the mountain snows, there is the additional value of lumber and scenic view. When properly managed a forest can be a perpetual resource. The public can never be reminded too often of the necessity of preventing forest fires.



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FINAL EXAMINATIONS IN JUNE

Did sickness, harvesting, or anything else prevent you commencing high school last September? If so, the Mount Royal College Semester System of High School study can assist you to get the most of your year's work by next June.

Start with the new Spring Semester that commences December 6th. You may take five major subjects and options up to 27 Credits and write final examinations in June. All high school subjects of each grade will be offered, and the complete work covered by the end of June.

A Summer Semester will be offered commencing July 4, 1955, for students needing one or two subjects to complete Senior Matriculation or High School Diploma.

SPRING SEMESTER

MOUNT ROYAL COLLEGE

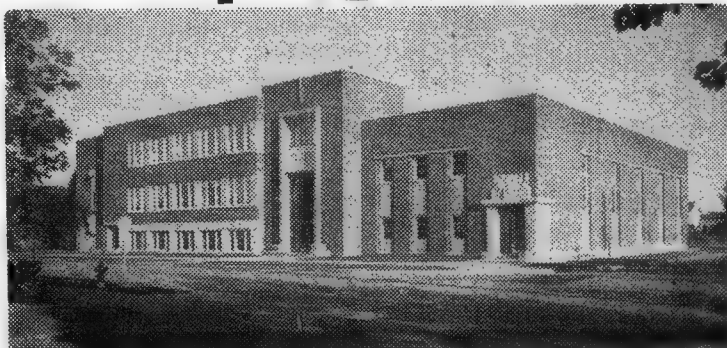
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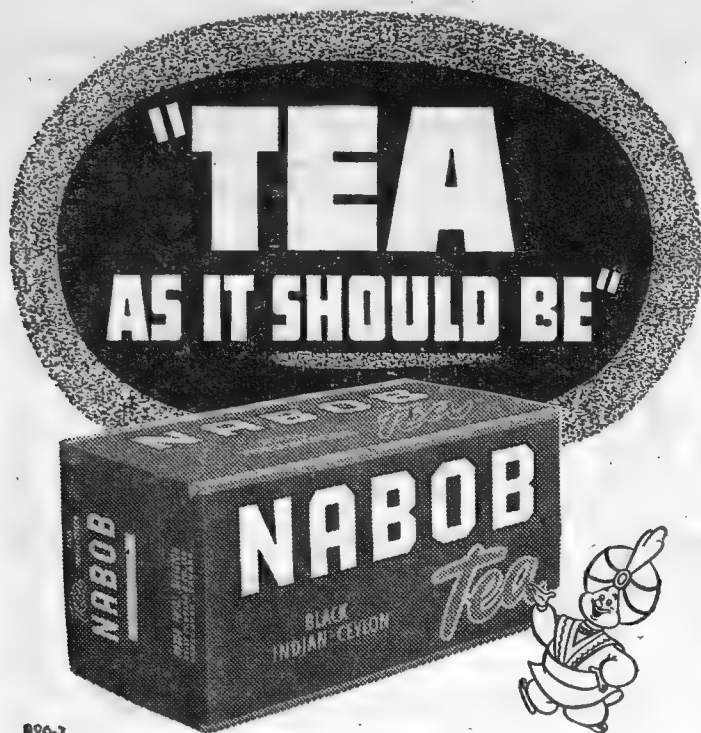
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Do you wish Mathematics 31? _____

NAME _____ ADDRESS _____

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CHANGING MAILING ADDRESS? Don't forget to notify the Circulation Department, THE FARM AND RANCH.

Why Pool Patronage Pays

Every year an increasing number of grain producers are finding that it is good business to support Alberta Pool Elevators.

As a true farm co-operative the Alberta Wheat Pool distributes its surplus earnings in the form of patronage dividends. Over the years this has meant a saving of nearly \$15,800,000 to grain producers.

An average farmer, for example, who has delivered 2,000 bushels of wheat a year for the past ten years will have received, over and above the full value for his grain, dividends as follows:

Cash	\$160
Reserve credits	448
Total dividends	\$608

This was acquired at absolutely no cost — simply by patronizing the Pool. In addition he has received the fairest possible treatment and the very best grain handling service.

The Wheat Pool reserves he has received represent a share in the ownership of the organization. They are a valuable saving for the years ahead.

This illustration simply points out one of the many reasons why Pool patronage pays.



"IT'S ALBERTA POOL ELEVATORS FOR ALBERTA FARMERS"

Country Diary

NOVEMBER really has the worst reputation on the calendar. It lacks October's bright foliage and cheerful looks. Nor does it possess the exhilaration of the ancient feasts and Christmas celebrations. In short, according to tradition and out-door workers, November is a hard, grim character who performs his work with no deviation from the register. But nevertheless, in spite of this and the words of great poetry which certainly have little or no praise for November, I remain of the opinion that the month is libelled.

There are those, and in the great majority, who cannot see or feel or smell the seasons, but have to depend on figures on the wall or desk pad. But the few observant ones who take time for thought look deeper and see the inner planning of Nature who has paused in her visible work overhead and above ground, and is now at work underground, where a mighty root system strives unceasingly, gathering chemicals from a compost of rotting leaves and grass and moisture of rain and snow, all over the land. It is one of the busiest times in Nature's economy, the time of her annual methodical house-cleaning. Sap is reclaimed and soil revitalized, while unanchored and footloose things belonging to the co-operators on the land, are gathered into sheds for mechanical hibernation.

The sun retires earlier and rises later these November days and this allows the land to cool. The night air is thus chilled and its moisture condenses in visible mist which we call fog. Fog is something to be accepted philosophically, and to be borne

with patience, until science, sponsored by wealth can form a solution, which may be a long, long time hence. It is a measure to fast travel of all kinds, a warning in fact to go slowly, which might very well be heeded when the mists have cleared. We are fortunate in not having heavy, chemical smoke to create the poisonous smog and "peasoup". Besides the occasional fog there will be the usual darkened sunless days when the black, twisted branches like tortured arms uplifted to a grey sky, resemble a Chinese etching. Color has gone on these days and everything, sombre and bare, has drawn within itself. There will be chilly dawns, sharp, icy winds, flurries of snow and the winter-permanent snow expected any day. But then, in a lucky month we may have the gift of a few Indian-summer days, saved from October, warm and hazy, with a kind of golden balm in the air.

Fierce, cold days, radiant with sunshine are also November days, and are followed by still, frosty nights, when Orion the belted hunter is abroad with Sirius his bright-eyed dog at his heels, untired in eons. Our far-distant celestial neighbors, the planets, pass in a silently revolving cycle like a roof over our little world, through distances that stun the human senses.

The ancients were ignorant of astronomical facts, but they knew the stars from constant study, and their knowledge generated a familiarity and friendliness. They adopted stars, as it were, for protection. Now we, living on a small planet, fear and dread its very atoms.

Meditations at Twilight

What's Wrong With The World?

By A. L. MARKS

MOST individuals are so disgusted, disheartened, frustrated, or feel so helpless and unable to suggest a remedy that they say and do nothing about it.

But really there is nothing wrong with the world, and never has been, that individual possession of the two usually absent senses wouldn't correct.

What are they? They are these: First, a sense of humor which will enable us to escape from the usually dominating "selfness" of ourselves, which is just another name for our selfishness, and which so easily suggests to us that whatever is near us should somehow be ours because it happens to be around, whether we pay anything for it or not.

The legendary character, Uncle Eb, is credited with the observation that "The world might owe every man a living, but it is one of them debts we have to hustle around and collect".

The second sense that is usually absent with each of us is that quality we refer to as "common sense". Actually it is the most uncommon sense in the world, and, when assisted by a saving sense of humor, keeps us in the right relationship to ourselves, to others, and to the world in general.

So, if we would discover and correct "what is wrong with the world," we will make the most rapid and satisfactory progress and reach the truest conclusions, if each of us, applying a sense of humor regarding our own assumed dignity and self-importance, then, with the resulting attitude of common sense, seek the truth, with the beam removed from our own eyes, which impairs our vision. We have the answer to the problems in ourselves.

Rudyard one time told us,
That never the twain can meet;
But that isn't true, when we speak of
food,

For all people like to eat.

HAVEN'T you noticed that when a group of women meet and someone starts the conversation rolling by mentioning some recipe . . . then everyone gets into the act? No matter what their social station in life may be, if they are all home-makers then they are interested in the preparation of food.

I attended a large public tea a while ago and each member was asked to write out some recipe. While we were all racking our brains I suddenly overheard a woman near me say, "There's no use asking me for recipes for all those I have are either from Betty Crocker or Aunt Sal." I started smiling like a Cheshire cat for I wouldn't be human if I weren't flattered to be mentioned in the same breath with the famous lady-of-food, Miss Crocker.

So for this lady (whoever she was) and any others who may happen to like the type of recipes I test and share with you I'm going to give you three recipes that I tried for the first time this past month. The first one is in the pickle class, so please cut it out and paste it in your cook book ready for next year. This relish is in the same class with the green tomato relish I gave you . . . and of all

Aunt Sal Suggests . . .

the letters I've received praising it! One lady wrote that she had made it of both green and red tomatoes, singly or mixed. (I did, too.)

Thousand-Island Pickle

Put through food grinder (or cut very fine) all of these: 8 large cukes, 1 large cauliflower, 12 large onions, 2 sweet green peppers, 2 sweet red peppers. Cover with $\frac{1}{2}$ cup canning salt and 5 cups water. Let stand one hour or more, then drain.

Now mix these: 6 cups white vinegar diluted with 2 cups water, 6 cups white sugar, 1 tblsp. mustard seed, 1 tblsp. celery seed, 1 cup flour, 6 tblsp. mustard, 1 tblsp. tumeric. Pour over drained vegetables and cook for about $\frac{1}{2}$ hour. Seal in hot sterile jars. (Yum yum, but it is good!)

This past summer I had visitors from as far east as Boston . . . as far south as New Orleans and as far west as Victoria. (No one came out of the far north to see me.) All were interested in eating and many asked me to find certain recipes for them. One request was for:

French Fried Onions

Peel and slice onions in $\frac{1}{4}$ -inch slices. Separate rings carefully. Soak rings in milk for 15 minutes. Drain and dip in this batter: $\frac{2}{3}$ cup yellow cornmeal, $\frac{2}{3}$ cup flour, 1- $\frac{2}{3}$ cups

milk, 1 egg well beaten, 2 tblsp. melted butter, salt and pepper. After dipping in this batter, dip in dry flour, then fry in deep fat, 375° F. for 2 minutes or until golden brown. Drain on paper.

Note: This same batter is fine for fish, too, and that trick of soaking first in milk and after dipping in the batter take a quick dip in dry flour will assure you of a crispy crust on the food. Very tasty.

No matter where our friends hail from they are without exception very happy to get another addition to their cookie recipe files. And so I'll pass on this one that I tried (and liked) lately. It makes a large batch, and they will stay soft and fresh-tasting for as long as two weeks.

Butterscotch Drop Cookies

$\frac{1}{2}$ cup butter, $\frac{1}{4}$ cup peanut butter, 1 cup brown sugar, 1 egg, 1 cup chopped nuts, 1 cup chopped dates, 1 tsp. baking soda, 1 tsp. vanilla, $\frac{1}{2}$ cup boiling water, 2 cups all-purpose flour.

Method: Combine dates, soda and boiling water and let stand while combining all other ingredients. Then add date mixture. Bake in oven 350° F. for about 12 minutes. So simple . . . not an exotic ingredient in the lot, but they are nice enough for

any party fare. If you don't care for peanut butter then use $\frac{3}{4}$ cup butter for your shortening.

If you are lucky enough to have a home freezer, then just bake part of this batch and freeze the rest for later enjoyment.

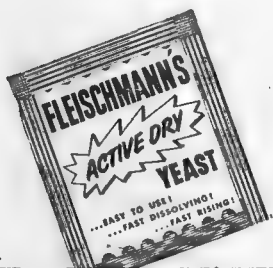
I do enjoy the letters you write me telling of various freezing tips that you have discovered and tried out. I wish that all of you who are interested in the "quick freeze" method of preserving food could have attended a lecture on that subject that I treated myself to lately. Here I had been conceited enough to think that I'd learned quite a lot along this line the past two years, but, after listening and seeing what a certain smart little home economist had to pass on to us, I knew for sure the truity of that statement: "The more we know, the more we realize how little we know." I'll be touching on this subject again for I'm really "hipped" on it. Bye bye for now, and every good wish.

Aunt Sal.

Budget Problem. In St. Louis, accused of sending his wife only \$30 a month to live on, Railroad Worker Jesse McClinton protested that he could not possibly afford to give her more money, but got a year in jail after he asked the judge: "Who's going to pay for my car and television set?"

One Basic Dough makes 3 Delicious Bun Specialties!

Needs no
Refrigeration



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Never did buns rise so light—so deliciously tender! And 3 table triumphs from the same dough! When you bake at home get perfect risings every time with Fleischmann's Active Dry Yeast.

BASIC ONE-RISING SPECIALTY DOUGH

Measure into a large bowl
1 cup lukewarm water
2 teaspoons granulated sugar
and stir until sugar is dissolved.
Sprinkle with contents of
2 envelopes Fleischmann's
Active Dry Yeast
Let stand 10 minutes, THEN stir well,
stir in
1 $\frac{1}{4}$ cups lukewarm water
3 teaspoons salt
Stir in
4 cups once-sifted bread
flour

and beat until batter is smooth and
very elastic.
Cream in a large bowl
 $\frac{3}{4}$ cup butter or margarine
Gradually blend in
 $\frac{3}{4}$ cup fine granulated sugar
Gradually beat in
3 well-beaten eggs
Add to yeast mixture, about a third
at a time, beating well after each
addition.
Mix in
3 cups more once-sifted
bread flour
Divide soft dough into 3 bowls to
finish as three specialties.



1. Butterscotch Nut Buns Melt 3 tablespoons butter or margarine in 8-inch square pan; brush sides of pan with fat; mix in 1 tablespoon corn syrup, $\frac{1}{2}$ cup lightly-packed brown sugar and $\frac{1}{2}$ cup broken walnuts or pecans. Combine in a shallow bowl $\frac{1}{2}$ cup sugar, 1 teaspoon cinnamon and $\frac{1}{8}$ teaspoon nutmeg. Cut out rounded spoonfuls of dough, coat with cinnamon mixture and place in pan; sprinkle with any remaining spiced sugar. Cover and let rise until double in bulk. Bake in moderately hot oven, 375°, about 35 minutes.

2. Cheese Pull-Aparts Line bottom of

a greased 8-inch square pan with greased waxed paper. Cut half of dough into rounded spoonfuls; place in pan; sprinkle with 2 cups shredded cheese. Spoon remaining half of dough on top; grease tops. Cover and let rise until doubled in bulk. Bake in moderately hot oven, 375°, about 35 minutes.

3. Seed Buns Cut out rounded spoonfuls of dough and drop into greased muffin pans—each spoonful should about half fill a pan. Brush with melted butter or margarine; sprinkle with poppy seeds. Cover and let rise until doubled in bulk. Bake in moderately hot oven, 375°, 20 to 25 minutes.

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fancy sweet rolls!
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ANGEL FOOD
SILVER
CHERRY-ALMOND

For ALL your baking, choose

OGILVIE 4-way
vitamin enriched FLOUR
It's Sifted through Silk!

Try these foreign dishes

WHO does not like to get a new recipe? If it comes from a far off country you feel you have something really special. The home economists of the Consumer Section, Canada Department of Agriculture, suggest that the best way to get a foreign recipe is from a person who is used to making it. So many new Canadians have brought their recipes into our communities that you can get them first hand.

That is one of the reasons that foreign dishes and meals are so much more popular just now. You have probably served one or more of these dishes yourself fairly recently. If you have not, perhaps your reason for not trying one is that it calls for so many ingredients and that it takes so much time. That is the big difference between the recipes in North America and those in Europe. Anyone who has been to Europe recently will tell you that the time element is noticeable.

The European housewives are not concerned with shortcuts. You do not see the number of pre-packaged foods over there that are in all our stores. It does not seem to occur to them not to make almost everything at home. Actually, it is the variety of ingredients and the long cooking together that gives foreign food the wonderful flavor that no shortcut methods can quite duplicate. Of course many Canadian housewives just could not spend so much time preparing a meal. But it is a great pity not to try these special dishes occasionally. When you get a few you really like, you will probably want to make

them a part of your family meal pattern.

Cooking in a cabbage leaf is a new idea to most Canadians, but it is a very old northern European custom. The Arabs practised a similar custom and if you have any Danish or Finnish friends, you will find that they serve filled cabbage leaves quite frequently. They call them "cabbage rolls". Since most of the recipes have been handed down in families from generation to generation, there can be almost countless combinations for the filling. The following recipe for Cabbage Rolls from the home economists of the Consumer Section, Canada Department of Agriculture, is one you will want to try for lunch or supper sometime soon.

Cabbage Rolls

- 12 large cabbage leaves
- 1 green pepper
- 1/3 cup chopped onion
- 1/3 cup chopped celery
- 2 tablespoons fat
- 2 cups chopped cooked spaghetti or macaroni or cooked rice
- 1 1/2 cups sausage meat (3/4 pound)
- 1 cup tomato juice

Wash cabbage leaves and cook, covered, for 3 minutes in a small amount of boiling salted water. Drain and dry on a towel. Seed and chop green pepper and saute with onion and celery in fat for two minutes. Add the spaghetti and sausage meat, blending well. Put about 1/3 cup stuffing on each cabbage leaf and roll up, starting from base of leaf. Place in single layer in greased baking dish. Pour tomato juice over the rolls and bake in a moderate oven, 350° F., for about 45 minutes. Yield: six servings.

Happy Home-coming



Let's Ask Aunt Sal . . .

I HAVE received many requests for a copy of the pamphlet that I am compiling for the use of those who have to cook for diabetic members of their families. I find I cannot get this ready by October 15th as I planned, but I have carefully filed the names of all those who requested a copy and I shall mail them to you as soon as I can. It will be sometime before Christmas.

Q.: I would like the recipe for a very large fruit cake (about 50 lbs.) to serve as a wedding cake.—(Mrs. J. V., Victoria.)

A.: I'm sorry I have not a recipe this size, but I'm sure you can find a good recipe for a five-pound cake and then multiply all ingredients by ten.

Q.: Where could I get a low-priced book that will help the members of our club to conduct the meetings according to parliamentary rules? — (Mrs. H. J., Calgary.)

A.: There is a fine little booklet costing twenty-five cents put out by McCall's called "How To Run a Club Program," that should help you. Write to McCall's, 133 Simcoe Street, Toronto 1, Ontario.

Q.: Could you tell me how to make milk jelly? I remember my mother used to make it years ago.

A.: By the tone of the rest of the letter I think she means jelly that one cans for later use. I haven't been able to find any such recipe, but one can make very nice jelly for an invalid dish with Jello or gelatine powder. Dissolve the powder in ½ cup hot water and when dissolved add 1½ cups hot (but not boiling) milk.

Q.: I wish to procure a gelatin powder that does not contain any animal product. We once were able to get such from the States that was called "Kel Jel", but we cannot get this in Canada. — (Mrs. B. W.)

A.: I have done much enquiring around at large food stores, but it seems that none of them stock this.

Q.: I would like to know if you can recommend any books on (1) making, (2) decorating wedding cakes. — (Mrs. J. S., Welwyn, Sask.)

A.: Of course any good fruit cake recipes is fine for a wedding cake. One of the latest

bulletins I have is No. 10 "Delicious Fruit Cakes," Cookery Leaflet Dept., The Star Weekly, 80 King Street, Toronto 1, Ont. It costs 10 cents. As for directions in decorating cakes, I cannot find any Canadian address, but if you write to Good Housekeeping, Bulletin Service, 57th St. at 8th Ave., New York 19, N.Y., you can get a very fine one for twenty-five cents.

Q.: Is it advisable to put a fowl in a freezing locker after being dressed and drawn? Would it affect the quality of the meat if fowl is drawn and dressed? — (Mrs. W. E. H., Ceylon, Sask.)

A.: You must draw a chicken before quick freezing it. If you mean by "dressed", stuffed, no it is not advisable to stuff the fowl before freezing. You can roast a stuffed fowl and wrap properly and freeze.

Q.: Could you give me a good reliable recipe for a cream cake? Those I make seem to get rather heavy, and I wondered if it was my fault or the fault of the recipe.

A.: You didn't state whether this was for sweet or sour cream. You can use this for either one, only for sweet cream omit the baking soda.

Sour Cream Cake

2 eggs, 1 cup white sugar, 1 cup thick sour cream, 1 tsp. vanilla, 1½ cups sifted cake flour, 2 tsps. baking powder, ½ tsp. salt, 1/3 tsp. baking soda.

Method: Beat eggs and add sugar. Beat well. Add cream and vanilla and beat again. Mix flour, salt, and other dry ingredients, sift 4 times and fold gently into batter. Spread carefully into well greased 8-inch square cake pan. Bake in moderate oven 40 to 50 minutes.

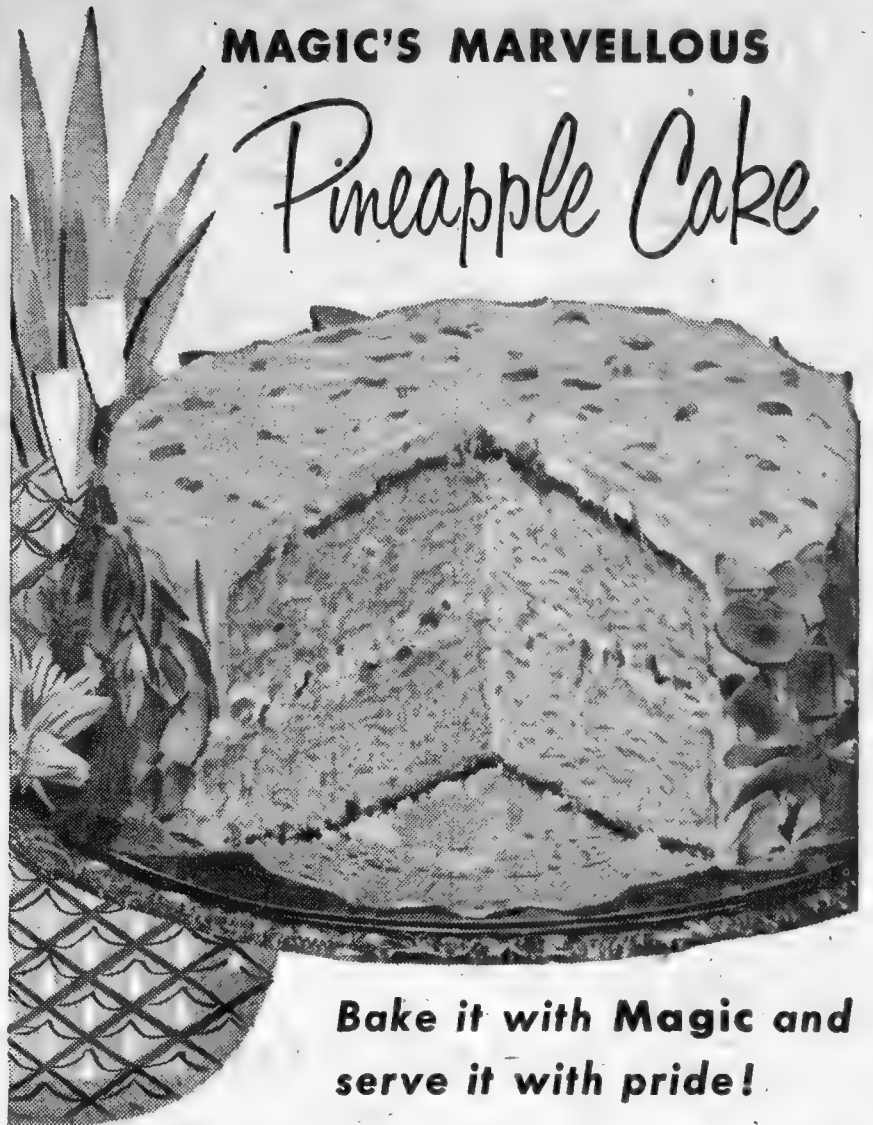
Note: — I think likely the reason for the heaviness of your cake was that you stinted on the beating and sifting.

Q.: I asked you readers who had had experience with "putting down" eggs in waterglass or by other methods to please write and share your experiences. To date only one reader wrote in, how about it?

Note: — All readers are invited to send in their home-making problems to Aunt Sal, in care of the Farm and Ranch Review, Calgary, Alta.

MAGIC'S MARVELLOUS

Pineapple Cake



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SUNNY ISLETS of golden pineapple in a creamy sea of fragrant frosting . . . a tropical topping for the light, clinging texture and flavory filling within.

And it's your success as well as Magic's—this dream of a Pineapple Cake! For—you made it yourself!

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Costs less than 1¢ per average baking



MAGIC PINEAPPLE CAKE

8 tbsps. quick-mix shortening (at room temperature)	½ tsp. salt
2 cups once-sifted pastry flour	1¼ cups fine granulated sugar
or 1¾ cups once-sifted all-purpose flour	¼ cup syrup from canned pineapple
3½ tsps. Magic Baking Powder	½ cup milk
	1 tsp. vanilla
	2 eggs

Grease two 8-inch round layer cake pans and line bottoms with greased paper. Preheat oven to 375° (moderately hot). Measure shortening into mixing bowl. Sift flour, Magic Baking Powder, salt and sugar together once, then sift over the shortening in the mixing bowl. Add the syrup from canned pineapple, milk and vanilla. Beat with a mixing spoon for 300 strokes. Add the unbeaten eggs and beat another 300 strokes. Turn into prepared pans. Bake in preheated oven about 25 minutes.

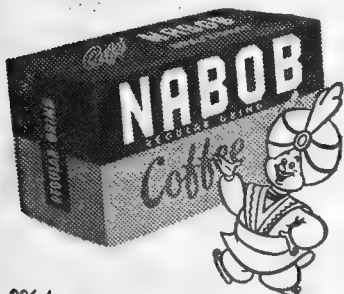
VIENNESE PINEAPPLE FILLING AND FROSTING: Turn into upper pan of double boiler 2 egg whites, 1 cup granulated sugar and 3 tbsps. syrup from canned pineapple; stir until sugar is partly dissolved. Place over boiling water and cook, beating constantly with rotary beater, until frosting will stand in peaks—about 7 minutes. Remove from heat and beat in ½ tsp. vanilla. Cover pan with a wet cloth and cool mixture completely. Cream ½ cup butter or margarine until very soft; add the cooled icing, a little at a time, beating with mixing spoon after each addition until frosting is blended and creamy. Take out about ¾ cup frosting and fold in 2 tbsps. well-drained finely-cut canned pineapple and ¼ cup toasted chopped Brazil nuts; put cold cakes together with this mixture. Fold ¼ cup well-drained finely-cut canned pineapple into remaining frosting and use to cover top and sides of cake. Decorate sides of cake with toasted thinly-shaved Brazil nuts or sprinkle liberally with shredded coconut.

The Dishpan Philosopher

It's strange that now it should be fall since summer hardly came at all. So far the weather has been queer and made a miserable year. It may be, as some folks proclaim, the bomb explosions are to blame. I wouldn't be a bit surprised if nature got disorganized by these experimental bouts. Man takes big chances when he flouts earth's secrets which he wasn't meant, I'm pretty sure, to circumvent. However this may not be so — wet years and dry ones come and go. Those that provide a happy mean are very few and far between.

I sometimes wish, I must admit, the atom never had been split. They say its power has uses which will common daily life enrich. The thing is it may wipe us out before its uses come about.

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When Relief Seems Hopeless!**

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One day as I was picking raspberries for mother I came to the place where a wasps' nest had been. I heard a rustling in the bush and I thought it was our dog. I called him but he didn't come. I heard the rustling again. I had my pot full so I turned to go into the house, I happened to look back and I saw a grey squirrel picking a raspberry off its stem with his front paws. It picked another berry and then turned and went away. I sure was surprised to be able to get as close as I did to him.

Donnie Friesen.
Gull Lake, Sask.
Box 240,

One day when Dad was going to feed the cows in the barn he heard something hissing like a snake. He hurried home and got the flashlight. Later he looked all over the place wondering where the hissing was coming from. He looked into a box which was used to hold grain and there was a mother racoon with five little babies. Next day we phoned to the Bowmanville Zoo and the zoo-keeper came over and took them away.

(Miss) Emilie Grace.
R.R. 3, Bowmanville, Ont.

One day I was going to a neighbor's place when I met a sow and her little piglets. When they saw me they hid behind grass or in small holes, and some just lay flat on the ground very still. I have seen this done by prairie chickens, but this is

the first time I saw it done by pigs. I thought it was rather unusual.

Rudolph Lubeseder.
High Prairie, Alta.

Last spring one of our cats, Blacky, had two kittens. She was always wanting in the house and we wouldn't let her in. One night she climbed up the tree by my bedroom window and jumped on the porch roof. Then she jumped on the window ledge and came in through the broken part of our window. A few days later, when we were away to town, she brought her kittens in. When we got home they were lying in the big chair down stairs.

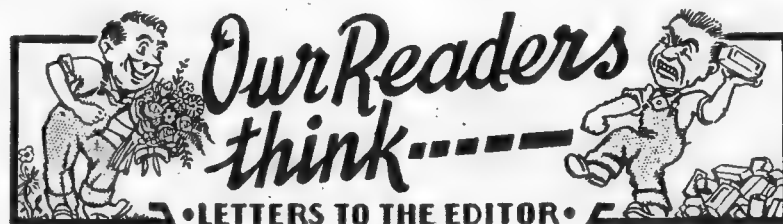
James R. Branson.
R.R. 1, Innisfail, Alta.

One evening, this summer, about 500 cranes landed on our farm. During the night they made so much noise it was almost impossible to get some sleep. They left our farm about 11:00 next day in the morning.

Victoria Kyca.
Box 150, Andrew, Alta.

It was a hot afternoon and the flies were bad, so our twenty-year-old horse, Mell, went into the barn to get away from the flies and eat her oats, but who should be curled up in her favorite feed box but our five little kittens. She took each one gently by the scuff of the neck and transported them to safer parts of the barn.

Roman Bizon.
Spruce Valley, Alberta.



Old-fashioned teachers

To the Editor:

Have read your editorial on school teachers, etc., in the September issue and hasten to say it is the most sensible thing I have read for a long time. This "no compelling" business is plain Socialism. As soon as the scholars leave school, they run into competition. Long live the old-fashioned teacher. The three R's with some discipline never hurt any one. This pussy-footing round children's feelings and letting them develop their own personality, etc., is much overdone, and that is where the BRAT comes from, and have we any brats?

Florence E. Bennett.
Victoria, B.C.

Help the Wheat Board

To the Editor:

The Farm and Ranch Review is in many ways the best paper printed in Canada.

You seem to publish the facts truthfully and fearlessly and without harm to anyone's personal character. I think that any farmer who will read carefully your editorial, Heckling the Wheat Board, solves no problems in your July issue, will, at least, refrain from helping the grain exchange to discredit the Wheat Board.

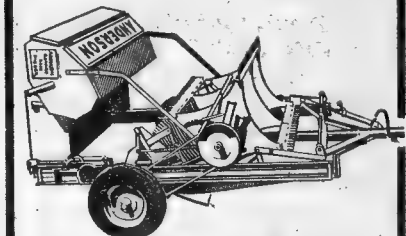
The Wheat Board has a hard job and is doing it well.

M. D. Cameron.
Beresford, Manitoba.



Take a Look

**at the ANDERSON
ROTARY
ROCK PICKER**



The World's Only Continuous Picker. Picks in any position — uphill, downhill or downhill. Saves time — saves labor — saves money and equipment. Let us demonstrate this versatile machine for you or send for full information.

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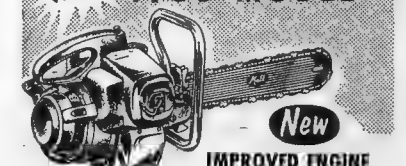
CALGARY FARM MACHINERY LTD., Box 117, Calgary, Alberta.
Please send me full information and prices on the ANDERSON ROTARY ROCK PICKER.

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ADDRESS _____ FR-10-54

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May be Warning**

Backache is often caused by lazy kidney action. When kidneys get out of order, excess acids and wastes remain in the system. Then backache, disturbed rest or that tired-out and heavy-headed feeling may soon follow. That's the time to take Dodd's Kidney Pills. Dodd's stimulate the kidneys to normal action. Then you feel better—sleep better—work better. Get Dodd's Kidney Pills now. 51

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IMPROVED ENGINE
...longer life, greater economy.
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...disengages engine from cutting bar in a second.

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...the strongest, smoothest cutting, longest lasting saw chain ever made.

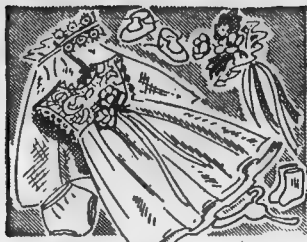
Your 2MG Power Unit Runs These and Many Other Attachments: High Pressure Pump • Generator • Earth Auger • Wood Borer • Stone or Metal Drill • Grinder • Sump Pump • Concrete Vibrator

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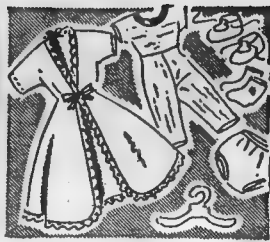
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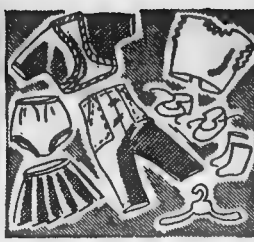
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C-DRESS-UP OUTFIT... \$.89



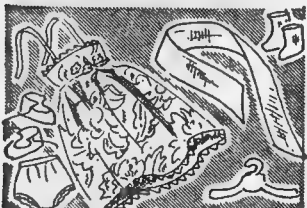
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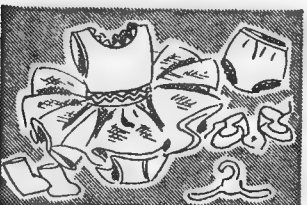
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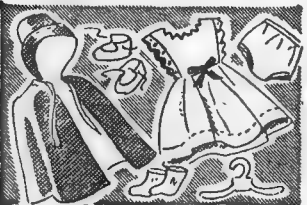
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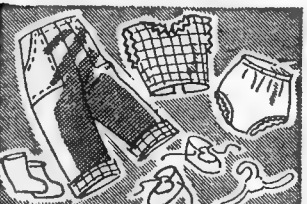
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10 EXCITING CUSTOM MADE OUTFITS TO CHOOSE
Hurry! Order your Janie now and order any of her 10 exquisite outfits. Perfect in each tiny detail,

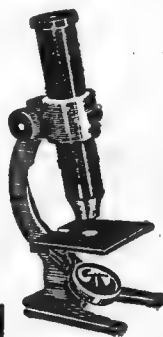
custom-made for Janie of hard-wearing materials with finished seams. Special extras include miniature dress hangers, real lace and braid trim, stoles, purse, socks, shoes. Everything a well dressed doll could wish for.

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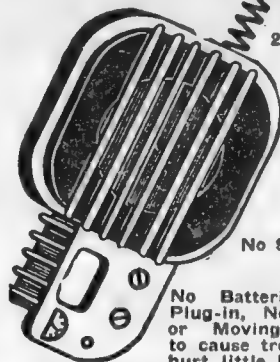
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This powerful precision-made optical instrument has been brilliantly engineered to incorporate the great feature of microscopes worth hundreds of dollars. Needlesharp images of nature's hidden secrets are revealed to you as they are magnified 150 times. Sturdily constructed in the latest ultra-streamlined, anti-reflection design. Sure-grip knurled spool knob on adjustable rack and pinion magnifier to permit critical focussing. Adjustable plano-substage mirror. Powerful ground lenses. Comes complete with microscope slide and instructions for many interesting experiments. Order Now.

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Clear
No Shouting
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No Batteries, No
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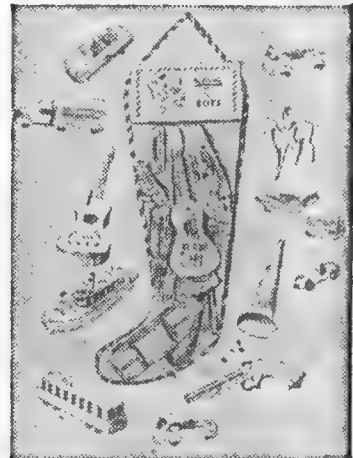
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MUSIC ... ANY SOUND

"Sends as well as Receives"

After a few weeks you will wonder how your children ever got along without the new Strato-Scout Walkie-Talkie Space Phone. Not just a toy, these "Walkie-Talkies" are precision-made permitting 2-way conversation. It works like magic and will be the gift rage of the year! Order yours now ... let your favorite boy or girl be the first in your district to thrill to the new Space Phone. Includes 2 phones and 50 feet of transmission line.

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XMAS STOCKINGS



Here's Christmas Stocking packed with fun for Christmas day and all year too. Brim-full of sturdy gay plastic toys—trucks, buses, cars, guns, ships, a ukelele that really plays, a horn that blows. Every child will love this swell Christmas stocking, jammed from top to toe with a huge variety of toys. Order one for every child on your Christmas list.

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"He's Back Again ... And Now He Talks!"

"PINTO PONY"

Your Name "Branded" on This INDESTRUCTIBLE PONY
Neighs As You Ride — Talks As You Tug His Reins

Sensationally new Pinto Pony says "Merry Christmas" in a loud, clear voice with a tug of his special talking rein — you'll know he's yours because you can have your first name "branded" right across his front. Amazing new Vinyl Plastic Pony inflates to extra-large size. You can sit on him, kick him. He "neighs" with each bounce almost life-like! He's so big, tough and strong, 200-lb. man can ride him, stamp on him and we guarantee it will not break. Electronically sealed seams. Special low introductory price — only \$3.00 for two. Buy them for every child on your list at this amazing low price. Send \$2.00 if you only wish one pony. Supply limited, so order as many as you need NOW. Be sure to PRINT names of children you want on pony. One name on each! Satisfaction guaranteed!



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Janie Doll(s) @ \$1.49 each _____
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Pinto Pony(s) @ 2 for \$3.00 (1 for \$2.00) _____
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• I enclose cash — cheque — money order for \$ _____ (post free)
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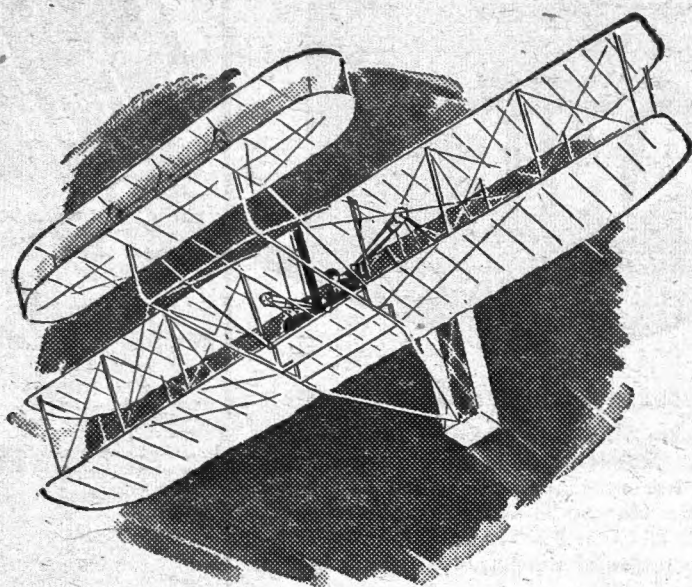
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1,000,000,000 pounds of milk are produced each year in Manitoba from which is manufactured 25,000,000 pounds of butter, 2,000,000 gallons of ice cream, 1,500,000 pounds of cheddar cheese and over 1,000,000 pounds of cottage and cream cheese.

There are over 1,000 beekeepers in Manitoba operating about 35,000 colonies to produce about 5 million pounds of honey each year.

Manitoba's poultry industry is now a \$20 million industry.



EVEN THE WRIGHTS WERE WRONG

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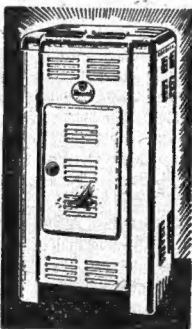
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Burning stubble won't control rust

STUBBLE burning has no place in rust control, according to W. E. Johnson, soil specialist in the provincial Plant Industry Branch. Though many farmers are well aware of the value of trash cover for erosion control and soil maintenance, Mr. Johnson added, a lot of fields in Saskatchewan are still being burned off every fall.

He said that because of heavy straw in many districts this fall and the wide prevalence of rust, queries had been received by the Branch about handling the stubble.

Low yields and a large amount of straw may be a temptation to burn stubble this fall, Mr. Johnson said. The mistaken idea that stubble burning will help in rust control may increase this temptation. Rust, however, does not over-winter on oats, barley or wheat straw in Saskatchewan and burning is, therefore, not any benefit in rust control.

Flax rust may winter on flax straw, and burning flax straw may be justified if flax is to be

grown on neighboring fields.

There is no evidence to show that burning stubble is of any major benefit in wild oat control, the soil conservationist stated.

Though most areas of Saskatchewan are well supplied with moisture this fall, dry spring weather and bare surface soil always can provide conditions for soil drifting. For the spring of 1955 water erosion may be a major threat in some areas. Soils already holding considerable moisture may not absorb much of the spring runoff and water erosion is the inevitable result of bare soils. A good surface cover of stubble and straw is a necessary precaution against both wind and water erosion.

The large amount of straw and excess moisture conditions on some fields may appear to offer difficulty in cultivation. However, Mr. Johnson concluded, the straw from this year's crop is rather rotten, will break up easily and should work down without undue trouble.

Low seed prices for Sask. farm

FALL seeding prices under the Saskatchewan forage crop program are the lowest since the program started in 1947, according to Agriculture Minister I. C. Nollet.

Mr. Nollet said the low costs have been passed on to the farmer, with the Department again absorbing the costs of cleaning, bagging, grading, mixing, inoculum and shipping. Pasture mixtures are offered for \$1.45 and \$1.70 per acre, while prices for various hay mixtures range from \$1.50 to \$1.85 per acre.

As in the 1954 spring forage crop program, special mixtures for moderately alkali land include either slender wheat or tall wheat grass with yellow blossom sweet clover, and cost \$3.20 and \$3.90 per acre respectively.

The current fall program contains the lowest price yet listed for reed canary grass, 35 cents per pound. Separate orders may also be placed for home at 12 cents per pound, created wheat at 24 cents per pound and for Grimm alfalfa, 27 cents per pound.

Mr. Nollet emphasized that cultivated forage crops are the

only reliable source of necessary feed reserves since in dry years native grass yields are poor and in wet years slough hay cannot be harvested due to flooding. He termed feed reserved absolutely necessary in order to stabilize the livestock operation, and urged that at least a full year's supply be maintained.

Fall seeding of forage crops is best, the Agriculture Minister stated, particularly in western and southwestern areas where spring moisture might be inadequate. Fall seeding takes advantage of early spring moisture from melting snow to germinate the seed and give good growth before hot weather, and has the added advantage of being done in an otherwise slack period. Moisture conditions this fall are considered ideal for the seeding of forage.

Since the forage crop program started in 1947, nearly 20,000 orders have been filled for more than 2.5 million pounds of seed—sufficient to seed down about 50,000 acres of land.

Further information about the program may be obtained from Ag.-Rep. offices, Municipal Secretaries or elevator agents throughout the province.

Loose housing cuts dairy costs

TESTS were carried on at the Experimental Station, Lethbridge, Alberta, during the winter of 1952-53 and the winter of 1953-54, to compare loose housing with conventional housing from the standpoint of suitability for dairy production.

During both trials the cows were fed their grain ration according to milk production and butterfat test. The roughage, consisting mainly of good quality alfalfa hay and grass-legume silage, was fed to appetite.

The appetite of the cows in the loose barn was better than in the conventional barn. During the winter of 1953-54 the cows in the loose barn consumed 8.4 pounds more roughage and 0.9 pound more grain per head per day than those in the conventional barn. The cows in the conventional barn refused 4.9 per cent of their roughage whereas the refusal was 2.3 per cent in the loose barn. The feed requirements per 100 pounds of FCM (4% Fat Corrected Milk) were higher in the loose housing barn than in the conventional barn.

The bedding requirements per cow per day were 10.8 pounds in the lounging area and 7.1 pounds in the feeding area in the loose barn. The daily bedding requirements in the conventional barn was 7.7 pounds per head per day. Bedding requirements in the loose barn can be reduced by implementing various management practices. The roughage feeding area should be paved and cleaned periodically and should be separated from the lounging area. Adding clean straw in the evening instead of in the morning will also reduce requirements.

The general health of the animals was good in both barns. The incidence of mastitis was nearly equal in both systems. However, injuries to legs and teats, and other illnesses were higher in the conventional than in the loose barn.

Total bacterial counts were taken on raw milk samples drawn from the milk cans immediately after milking. The average bacterial count was 11,540 from the loose barn and 9,115 from the conventional barn. (Total bacterial plate counts for grade A milk should be less than 50,000 per ml.).

The cows in the conventional barn gained 35 pounds more weight during the test periods than those in the loose barn.

The cows were calved in the barn in which they were to be milked. The calves remained with their dams for three days and then were placed in rearing pens in the conventional barn. There were no serious problems caused by cold weather. However, during cold weather, heat lamps should be used to provide supplemental heat for the calf

for one or two days in the loose barn.

During the two trials the feed and bedding requirements were higher in the loose barn than in the conventional barn. However, because the milk production was higher and the labor cost was lower in the loose barn, the cost per hundred pounds of milk produced was lower in the loose than in the conventional barn.

Weather records

A FEW interesting weather records reported by R. A. Hornstein in his pamphlet "Weather and Why" are given herewith:

Hailstones:

Largest in world — 15 inches in circumference, weight 1½ pounds, Potter, Nebraska.

Rainfall:

Greatest in 5 min. — 2.48 inches, Porto Bello, Panama.
Greatest in 1 hr. — 10.0 inches, Catskill, New York.
Greatest in 1 day — 45.99 inches, Baguio, Philippine Islands.
Greatest in 1 month — 366.14 inches, Cherrapunji, India.
Greatest in 1 year — 1,041.78 inches, Cherrapunji, India.

Snowfall:

North American greatest seasonal fall — 844 inches, Tamarack, California.
North American greatest daily fall — 60 inches, Giant Forest, California.

Temperatures:

World's highest — 136 degrees Fahrenheit, Azizia, Tripolitania, Africa.
North America's highest — 134 degrees Fahrenheit, Death Valley, California.
Canada's highest — 115 degrees Fahrenheit, Gleichen, Alberta, and Wilmer, British Columbia.
World's lowest — 94 degrees Fahrenheit below zero, Verkhoyansk, Siberia.
Canada's lowest — 81 degrees Fahrenheit below zero, Snag, Yukon Territory.

BOG SPAVIN?



"I CLEAR IT UP FAST!"

says C. W. Pace, Langmont, Colo.

● "As soon as I see signs of bog spavin, puff or soreness on my horses, I use Absorbine. That's the treatment advised by our veterinarian, and I have been using it for over 16 years."

Absorbine is not a "cure-all," but a time-proved help in relieving fresh bog spavin, windgall, collar gall, similar congestive troubles. Used by many veterinarians. A stand-by over 50 years. Will not blister, remove hair. Only \$2.50 a long-lasting bottle at all druggists.

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ABSORBINE

LAWDALE YORKSHIRES, superlative bacon type; strong and vigorous, from the best foundation stock. Reasonably priced. Write—LAWDALE, Box 416, Vulcan, Alta.



Safety Sam Says...

*Less safe than
any asp or viper.*

**is a worn
out windshield
wiper!**

Suppose you're riding along with a beat-up windshield wiper blade. Bango, along comes rain or snow. And then where are you? Standing out in the rain or snow, mostly, trying to wipe off the windshield enough so you can see. Or, if you insist on driving, you're just as likely as not to get your block knocked off. Isn't that silly? You should've fixed your windshield wiper.



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BIG HORN BREWING CO. LTD. — CALGARY BREWING & MALTING CO. LTD.
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REMEMBER . . . THE LIFE YOU SAVE MAY BE YOUR OWN

Prize Winning
"Baby Blue Eyes"
BIGGEST DOLL
VALUE in CANADA

★ \$12.95 VALUE

\$5.95

SHE SLEEPS
 SHE CRIES
 SHE SITS UP

Look at these features usually
 found only on dolls up to \$12.95:

● **WASHABLE FROM HEAD TO TOE**

Bathe her like a real baby—her entire body
 is genuine Latex.

● **SHE MAKES FACES**

Pinch her chubby cheeks and see her
 pout, or pucker up for a kiss! Her ex-
 quisitely modeled unbreakable vinyl head
 is perfect in every detail.

● **MYSTIC SKIN**

Her entire body is Mystic Skin filled
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● **SILK EMBROIDERED DRESS**

She is dressed up in a custom ward-
 robe. Glamorous, sheer party dress. is
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● **EXTRA LONG MAGIC BRAIDS**

Her amazing Saran hair, guaranteed
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Baby Blue Eyes is cuddly and life-like — the
 ultimate in doll realism. She is 20 inches tall.
 Her rosy cheeks, cute open mouth and real
 lashes over big, beautiful blue-eyes that open
 and close are a little girl's dream. Her arms,
 legs and head are moveable so she can sit up
 and assume life-like poses.

Her head turns — she coos happily, like a
 real baby, when you hold her tight. Your
 favorite little girl will love caring for this
 cuddly baby — she is so adorable in her dream
 dress.

MONEY BACK GUARANTEE

NIRESK INDUSTRIES, Dept. WBC-44,
 853 Kingston Road, Toronto 8, Ont.
 Rush amazing "Baby Blue Eyes" doll, Vanity
 Set, Curlers and Hair Style Booklet at \$5.95 plus
 C.O.D. postage. Full purchase price refunded if
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- ☐ Send C.O.D. plus postage.
☐ Heart-shaped gold finish locket necklace to fit doll or
 little girl, \$1.00 extra.
☐ To save postage I enclose \$5.95—ship prepaid.
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3-PIECE VANITY SET, CURLERS, AND
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Brush, comb, mirror and curlers that will give
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Easy to Set
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**RECENTLY DEVELOPED THERMOPLASTIC
COSTS PENNIES—LASTS YEARS!
SAVES YOU UP TO 20% ON FUEL BILLS
THIS WINTER ALONE!**

Who says storm windows are expensive? Now thanks to the plastics industry, you can winterseal every single room in your house—and do it for just 59c a window.

Yes, now you can seal up your entire house from basement to attic with an amazing new type plastic storm window that actually weighs less than 16 ounces—that you can put up in 5 minutes flat—with no tools, no hooks, no clamps—a plastic storm window that won't rattle, peel or chip—that can withstand up to gale wind pressure without splitting—that can save you many dollars on fuel bills this winter alone.

**THERMOPLASTICS USED
DURING AND SINCE
WORLD WAR II
BY UNITED STATES GOV-
ERNMENT IN ALASKA,
GREENLAND, ICELAND**

Thermoplastic type "glass" is used by the U.S. Armed Forces to protect valuable equipment on ships, in planes, and on the ground. It is used for insulation by defense plants all over America.

The U.S. Government needed a new type of material that could withstand winter winds—a transparent material that would not crack, chip or shatter even in freezing weather—a flame-resistant material, that properly applied, could last indefinitely.

WHAT THE PLASTIC INDUSTRY DISCOVERED

Thermoplastic! An amazing light-weight glass-like plastic that not only doesn't warp like old-fashioned storm windows—that not only resists rain, frost, hail, snow and wind—but a flame-resistant type of transparent "plastic glass" that actually seals out cold and seals in heat.

Over 1,000,000 homeowners have already purchased Thermoplastic type storm windows. It's first come, first served. Reserve your plastic storm windows now.

FIT ANY STANDARD SIZE WINDOW—TAKE MINUTES TO PUT UP

Hold-Fast Thermoplastic is now designed for homeowners so that it can be trimmed to tightly fit all standard size kitchen, living room and bathroom windows, no matter what shape. So easy to put up, any housewife can install it in minutes. You need no carpentry skill, no complicated hooks, clamps, screws or hinges to mess around with. You never have to use any type of tools. Simply fit the Thermoplastic over window—trim to size—smooth down special seal-tight border. Properly installed, even gale wind pressure will not blow that storm window off. Your entire house is winter sealed...and it costs you only 59c a window.

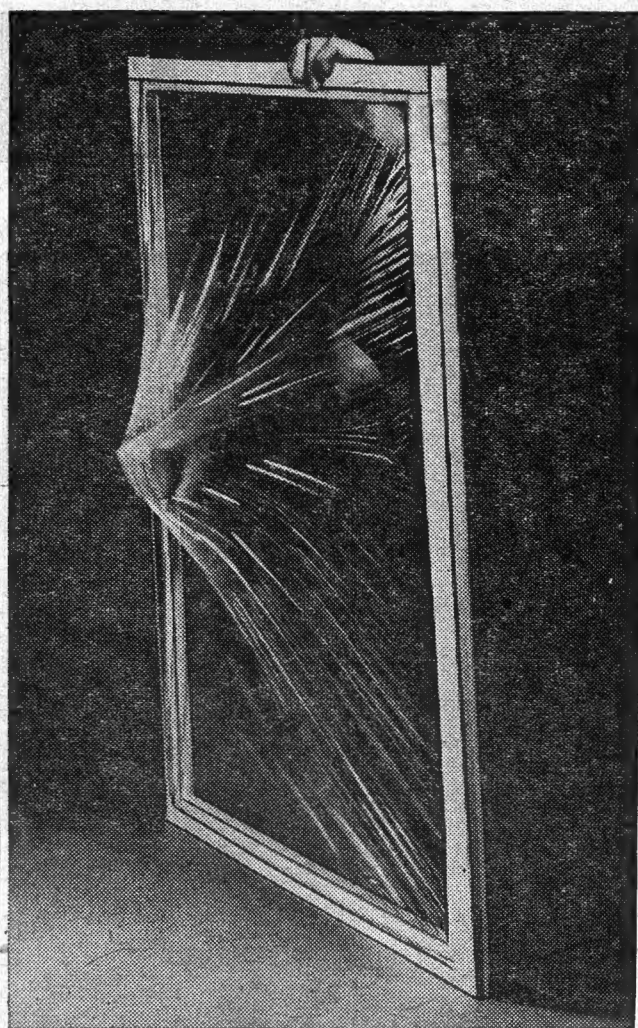
SAVE ON FUEL BILLS THIS WINTER

No matter if weather outside is gale wind pressure, Hold-Fast Thermoplastic storm windows help keep your home insulated. No matter how cold out of doors, Hold-Fast Thermoplastic storm windows help keep that cold out and heat in. No wind, draft, or dampness to ruin your comfort.

ACCEPT THIS NO-RISK TRIAL OFFER

If you would like to try Hold-Fast Thermoplastic storm windows this winter without risking a penny, simply mail no-risk coupon below. We will send you a roll of Thermoplastic that is 36 feet by 3 feet, fully 108 square feet (complete with Hold-Fast borders) enough to fit any 10 standard house size windows. When your order arrives, here is all we ask you to do.

Pay postman only \$5.98 plus postage for each set of 10-window Thermoplastic you order. That's less than 59c a window. Then install your storm windows in every room of your house. If your Hold-Fast Thermoplastic doesn't do everything we say—return within the next 10 days for full refund.

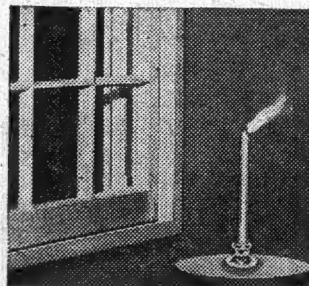


THE SECRET OF THERMOPLASTIC'S STRENGTH LIES IN ITS "SPRING ACTION" STRETCH. Thermoplastic is only 1/20th the weight of window glass, yet has a tensile strength of 3,000 lbs. per square inch—withstanding up to gale wind pressure without even a rattle. Make this stretch test at home and prove to yourself that this amazing "Spring Action Wonder Material" stands more punishment than glass without shattering. Tough, rugged Hold-Fast Thermoplastic helps seal out winter cold and helps keep your home snug and warm even in freezing temperatures.

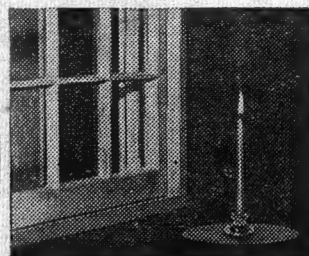
Hold-Fast Thermoplastic Helps Seal Out Drafts—Saves Average Home- owner Many Dollars in Fuel Yearly!

Take 2 windows. Leave one unprotected. Seal one with Hold-Fast Thermoplastic. Place a wind fan directly outside each window. Place a lit candle behind each window and turn on your fan.

WITHOUT THERMOPLASTIC



WITH THERMOPLASTIC



READ THESE FACTS BEFORE YOU BUY ANY STORM WINDOWS...

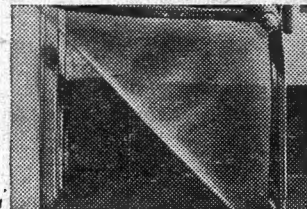
Do your windows turn moist and foggy on cold winter days? Then you need storm windows. Why? Science tells us the moisture on your window pane is proof that cold air is seeping into your home and valuable heat is escaping—proof you are actually losing as much as 5 to 15 degrees of heat every cold day—proof storm windows can save you as much as 20% on fuel bills this winter.

Lots of homeowners simply don't realize that if their storm windows are even slightly warped, loose or ill-fitting, not tightly caulked, then that leak can slash insulation by as much as 50% and rob your home of heat.

You can install Hold-Fast Thermoplastic either inside or outside your house, and do it in just minutes without any type of tool whatever. The special Hold-Fast border seals windows tight. No wind or air can leak around the sides. And Thermoplastic can't warp, peel, chip or shatter.

ONLY PLASTIC STORM WINDOW THAT OPENS AND SHUTS

Unlike other plastic storm windows, Thermoplastic allows free ventilation, never lets air grow stagnant, stifling and unhealthy. Simply release the Hold-Fast edge and your storm window is open—the room is degrees cooler—the air is fresher, healthier. Simply adjust the Hold-Fast edge and your storm window is closed.



HOLD-FAST THERMOPLASTIC storm window never lets air grow stale.

To clean your Thermoplastic storm windows, simply wipe them with a damp cloth—no messy washing necessary. Hold-Fast Thermoplastic storm windows are transparent...and they cost you only 59c each. But first come, first served. So if you want Hold-Fast Thermoplastic Storm Windows this winter you must reserve your order now. Mail No-Risk Coupon below today.

HASTINGS INDUSTRIES
60 Front St. West, Toronto, Ont.
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HASTINGS INDUSTRIES, 1954, Toronto

RESERVE YOUR ORDER NOW!

Mail No-Risk Coupon At Once!

HASTINGS INDUSTRIES
DEPT. SW-352,
60 FRONT ST. WEST, TORONTO, ONT.

Please rush me 108 square feet of Hold-Fast Thermoplastic... enough to fully seal and protect ten windows in my home, complete with temperature control Hold-Fast borders. When postman arrives I will pay low price of \$5.98 plus postage. But if my Hold-Fast Thermoplastic does not do everything you say, I will keep any 2 storm windows FREE and return the rest any time within ten days for full refund.

NAME..... (please print in pencil)

ADDRESS.....

CITY..... ZONE..... PROV.....

() Check here to save postage and C.O.D. charges. Enclose payment with order (cash, cheque or money order), and WE pay all shipping costs. Same money-back guarantee, of course.



TRANSPARENT HOLD-FAST THERMOPLASTIC seals out cold and seals in heat. Protects you and your family from bone-chilling drafts and dampness. Keeps your home snug and warm all winter long—no matter how cold the weather.

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